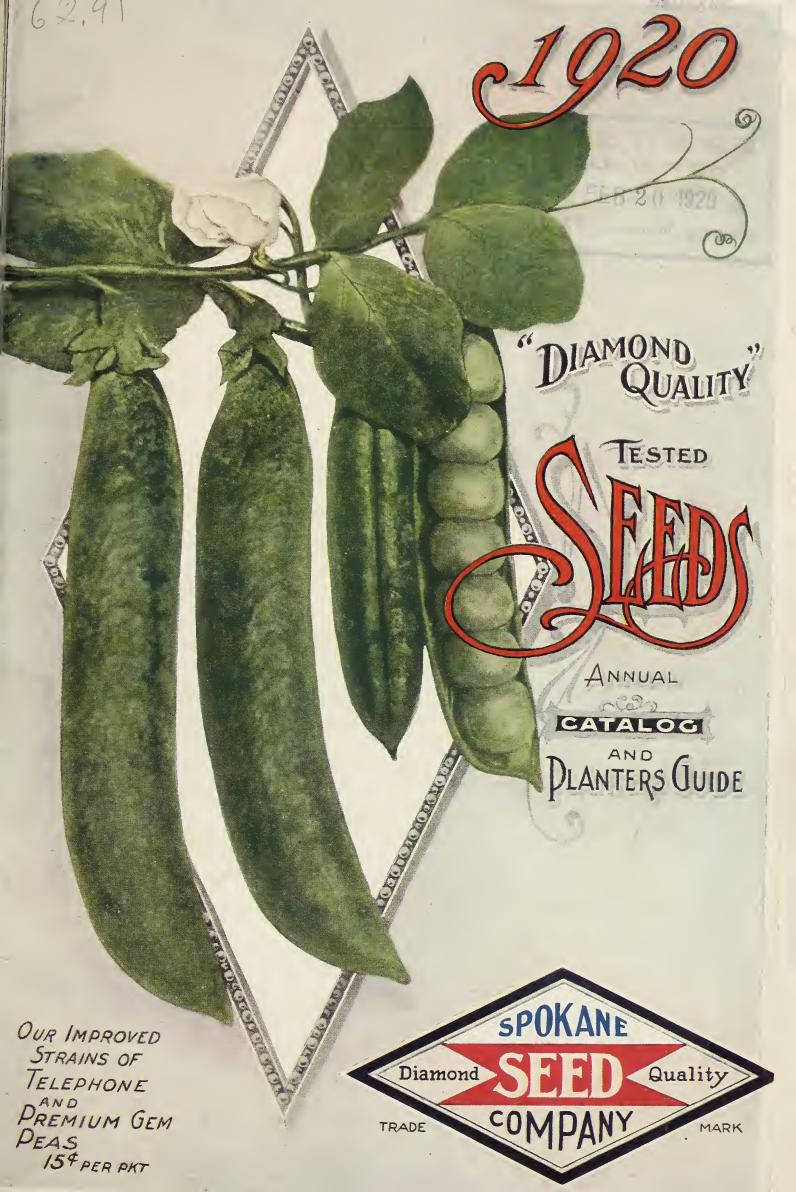
# **Historic, Archive Document**

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902-4-6-8-10 FIRST AVENUE Home of Spokane Seed Co. An up-to-date seed store with competent, courteous salesmen to serve you

At our large warehouse we have ample trackage and carload business is given quick despatch.



SERVICE--Right in the heart of the "Inland Empire" our direct trade connections, splendid facilities and thorough organization enable us to give you unequaled service and full value for your money. In our various departments competent men and women are actively engaged in serving our customers. Among these are practical experts, specially fitted by training and experience to confer with you on any subject pertaining to our business. Their suggestions or recommendations incur no obligation on your part and may save you needless expense and disappointment. You should take advantage of this service.

WHAT OUR DIAMOND TRADE MARK STANDS FOR. By reason of our business standing and the experience gained in serving the growers of the Northwest, we have established trade relations with the world's best producers and sources of supply. Only by such connections, is it possible, in the seed trade, to obtain the select true stocks—the best of the season's production; and when you see our DIAMOND Trade Mark on your packet of seeds or item of merchandise you can feel that it is a mark of real quality—THE BEST OBTAINABLE.

# Spokane Seed Company's Complete Seed Annual for 1920

To Our Patrons and Friends

POOD PRODUCTION, and in increased quantities, is still the call from all sides. So it behooves all who have any land to produce as much food as they possibly can. But great care and thought should be given to the selection of varieties to be grown for their food value and general productiveness. Not only should the soil be made to produce its maximum, but in these days of labor shortage, every physical effort put forth should be made to count for the most possible.

OUR IMPROVED VARIETIES and select strains have proven to be profitable to the Northwestern grower, and will give you continued satisfaction for either home use or commercial growing. We try to list standard and reliable selections of proven merit only, as speculating in novelties is unsatisfactory, and is too risky when it comes to seeds for planting.

HOME GARDENS—Carefully planned and planted the Home Garden will produce through a long season a big supply of delicious fresh vegetables for the table and canning that will greatly reduce living expenses.

HAVE YOU POULTRY? The meat supply is a very important consideration at this time of world shortage of food supplies. No one should be without at least a small flock of poultry, if he has any room at all for them. In almost any back yard there could be found space for these great producers of fresh eggs and meat. So don't neglect this valuable source of some of the best food known to man.

HAVE YOU ANY BEES? They are not hard to care for, and are indispensable in the pollination of fruit-bloom. And their honey—well, everybody knows how good it is. So keep a few bees,

LET US HELP YOU—The expert service that we are in a position to render you is free for the asking. The suggestions and information that we have to offer should save you expense, time, and secure better results from your efforts. So, why not let us co-operate with you, and thus make your own work count for more in both pleasure and profitable results?

# When and How to Order

SEND in your combined orders for seeds, plants, supplies, etc., at once. We are prepared to fill orders as soon as this Catalog reaches you, and if you do not want all sent now we will send part now and the balance later. The advantage of this is that your order is entered and filled or stock reserved so the complete order, or any part, can be sent upon notice without delay. If you want part or all of your order held, state it distinctly with date when shipment is to be made. All orders for potatoes, plants, and other perishable goods are carefully booked on receipt, and filled in rotation as soon as weather permits.

**USE OUR ORDER BLANKS**—Fill out the spaces, giving postoffice and shipping point. It is best not to write letters on the same sheet as your order.

Do not forget to sign your name.

SEEDS BY MAIL are postpaid in lots of one pound or less of a variety—unless otherwise stated. See parcel post rates for larger lots.

LARGE ORDERS—Any dealer, market gardener, institution or individual wishing seed in large quantities, is requested to mail us a list of what is wanted, and we will promptly return it with the very lowest market prices.

A letter of inquiry may save you dollars if you want to buy in quantity.

BY FREIGHT OR EXPRESS—In ordering vegetable or flower seeds to be sent by freight or express at your expense, deduct postage from single pound postpaid prices.

PREPAY STATIONS—When you send in orders to go by freight or express be sure that you add money enough to pay the charges if your station is a prepay point, which is always the case where there is no regular agent.

complaints or praises—If you are well pleased with our goods and the manner of doing business, tell everyone. If you are not, tell us, so we can please you. Our best efforts will be put forth in filling all orders carefully and promptly in a way that will please you.

USE MONEY-ORDERS, POSTOFFICE OR EXPRESS, Bank Drafts or Registered Letters. DO NOT send personal checks, as your order may be delayed for their collection or identification. Stamps will be accepted on small orders.

BE SURE TO ORDER EARLY-BEFORE STOCKS ARE DEPLETED

NOTE.—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.:—We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, nursery stock, roots or plants sent out and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are to be returned at once — Spokane Seed Company





### General Notes on Planting and Culture

JE have marked those varieties that mature early with this little Diamond, our trade-This will aid you in the selections for your home garden.

If you live in Eastern Washington, Eastern Oregon, Northern Idaho or Western Montana you will have better success with your garden by planting these early maturing varieties after the Spring weather is settled and the ground warm, than if you planted very early, as many seeds will not give the best results in the cold damp of the early Spring, and even if they live, the plants may be stunted and not grow. These suggestions are only general, as you will note that many special sorts can be planted very early.

Do not work the soil when it is wet, as this has a tendency to make it lump and bake and may put it in such shape that nothing can thrive in it. Wait until it is just dry enough to crumble away nicely when turned over, and if you will press the dirt firmly down on the seeds, getting right in the row and tramping the soil down with your feet—they will germinate quickly even in comparatively dry soil. Any extra work in carefully preparing the soil will more than repay you in the increased results, and always remember that constant and thorough cultivation is almost equal to water and fertilizer both, and will insure a good crop even in a dry season, and on ordinary soil.

New land must be thoroughly broken up and cultivated in order to make a good seed bed, as new ground in the wooded sections of the Pacific Northwest rarely produces bountiful crops the first few seasons without careful culture, fertilizing and rotation.

It pays to fertilize and cultivate to supply the necessary plant foods to the growing crops.

Fertilizers are not an expense but a profitable investment sure to give big returns if correctly applied and the cultivation and care of the crop is given proper attention.

Plan your plantings and keep a garden book or record of some sort, for by so doing you will get the utmost pleasure and profit from your garden and as the seasons pass you will find this record an invaluable aid and reference work. For if you keep a record you will soon learn what varieties are best for your requirements and to know your favorites, and when buying seeds or plants you will know just what to order.

If you are in doubt about what you should do, or want any special information, be sure to write to us. We will be pleased to give your inquiries our careful attention, and advise you to the full extent of our knowledge.

# DIAMOND QUALITY SEEDS

ARE TESTED SEEDS

O further guard the interests of our customers and maintain our standard of excellence, we have installed a modern seed laboratory equipped as recommended by the U.S. Dept. of Agriculture, placing in charge a certified seed analyst. It is here that final tests and inspections are made, and only those seeds that are above the standards are offered to the public, and bear our Diamond Trade Mark-the mark of quality that stamps them as the best obtainable.

We are the only Seed Company in Spokane operating a seed laboratory.



### REFERENCE TABLES

### Quantity of Seeds to produce a given number of plants and to sow an acre

Brussel Sprouts, 1 oz. to 2,000 plants 4 oz. Broom Corn, in Drills 15 lbs. Buckwheat ½ to 1 bu. Cabbage, 1 oz to 2,000 plants 4 oz. Carrot, ½ oz. to 100 ft. drill 3 lbs. Cauliflower, 1 oz. to 3,000 plants .3 to 4 oz. Celery, 1 oz. to 5,000 plants 4 oz. Cheat 2 bu.	Onion Seed, for sets 1 oz. to 150 ft. drill
Cauliflower, 1 oz. to 3,000 plants 3 to 4 oz. Celery, 1 oz. to 5,000 plants 4 oz. Cheat 2 bu. Chicory 4 lbs. Clover, Alsike and White 8 to 10 lbs. Alfalfa 15 to 20 lbs. Crimson Trefoil 10 to 15 lbs. Red 10 to 15 lbs. Collards, 1 oz. to 2,000 plants 4 oz. Corn, Pop (shelled) 8 to 10 lbs. Sweet or Field, hills 12 to 15 lbs. For soiling drills 3 bu. Cress, 3/4 oz. to 100 ft. drill 1 lb. Cucumber, 1 oz. to 100 hills 2 to 3 lbs. Egg Plant, 1 oz. to 2,000 plants 4 oz. Emmer 100 lbs. Endive, 3/4 oz. to 100 ft. drill 4 lbs. Flax broadcast 3/4 bu. Grass—Kentucky Blue, for pasture 1 to 2 bu. Kentucky Blue for lawns 100 lbs. Meadow Fescue 1 bu. Mixed Lawn 5 to 6 bu. Red Top, Chaff 1 to 2 bu. Red Top, solid seed 10 to 15 lbs.	Okra, 1 oz. to 100 ft. of d Onion Seed, for sets

Grass—Cont'd	Quantity per acre10 to 15 lbs. Rye1 to 2 bu.
Timothy	10 to 15 lbs.
Orchard, Perennial	Rye1 to 2 bu.
Wood Meadow	1 bu. 15,000 to 25,000
Horseradish Roots	15,000 to 25,000
Kale, 1 oz. to 2,000 p	lants4 oz.
Kaffir Corn, in drills.	6 to 10 lbs.
Kohl Rabi, 1 oz. to 2	,000 plants 4 oz.
Leek, 1 oz. to 100 ft.	of drill 4 lbs.
Lettuce, 1 oz. to 150	ft. of drill 3 lbs.
Mushroom Spawn	1 brick to 10 sq. ft.
Millet-For Seed	20 lbs.
For Hay Melon, Musk, 2 oz. to	30 lbs.
Melon, Musk, 2 oz. to	100 hills 2 to 3 lbs.
Water, 4 oz. to 100	hills3 to 4 lbs.
OatsOkra, 1 oz. to 100 ft.	2 to 3 bu.
Okra, 1 oz. to 100 ft.	of drill8 lbs.
Onion Seed, for sets	60 to 85 lbs.
1 oz. to 150 ft. drill Onion Sets, 1 qt. to 4	0 fr de:11
Onion Sets, 1 qt. to 4	u it. drill8 bu.
Parsnips, 1 oz. to 150	ft. drill 3 lbs.
Parsley, 1 oz. to 150	t. drill3 lbs.
Peas, Field	0.64 daill 1.44 0 bas
Pepper, 1 oz. to 1,000	official and the second
Potatoes	plants2 lbs.
Potatoes Pumpkin, ½ lb. to 10	0 hills 3 to 5 lbs
Radish, 1 oz. to 100 f	t dail 10 lbs.
Rape	2 to 5 lbs
Rye	11/ to 9 by
Salsify, 1 oz. to 100 ft	drill 6 to 9 lbs
Spinach, 1 oz. to 100 ld	ft drill 8 to 10 lbs.
Sugar Cane, in drills.	10 lbs.
Sunflower	8 lbs
Sunflower	z to 100 hills 3 lbs
Winter, 8 oz. to 100	hills4 lbs.
I omato, 1 oz. to 2,00	0 plants 4 oz.
Tobacco, 1 oz. to 4.00	0 plants3 oz.
Tobacco, 1 oz. to 4.00 Turnip, 1 oz. to 150 fe	t. drill2 to 3 lbs.
Vetches	1½ to 2 bu
With Grain Wheat	1 bu.
	$\dots \dots 1\frac{1}{2}$ to 2 bu.

ARTICLES				
	PER	BUS	HEL	
Artichokes	·	.60	lbs.	
Barley				
Beans		. 60	lbs.	
Buckwheat		.48	lbs.	
Blue Grass		1.4	11	
Kentucky English		. 14	IDS.	
Canary Seed		34	lbs.	
Cheat		. 60	lbs.	
Corn, Shelled		.56	lbs.	
Charcoal		. 22	lbs.	
Emmer		.40	lbs.	
Flax Seed		.56	lbs.	
Casas Canda /walas				
otherwise stated	ĺ)	.14	lbs.	
Hemp Seed		.44	lbs.	
Hemp Seed Hungarian Millet.		.48	lbs.	
Lawn Grass		. 20	lbs.	
Meadow Fescue	<i>.</i>	. 24	lbs.	
Millet		. 50	lbs.	
Oats Onion Sets		.32	lbs.	
Onion Sets		. 32	lbs.	
Orchard Grass		. 14	lbs.	
Peach Pits		.48	lbs.	
Peas, Smooth Peas, Wrinkled		. 00	IDS.	
Perennial Rye		20	lbs.	
Potatoes		.60	lbs	
Rape	<b>.</b>	. 60	lbs.	
Rve		56	lhs	
Red Top. Solid Se		. 14	lbs.	
Time the	ea	.42	IDS.	
Timothy		.40	lbs.	
Vetches:		.70	IDS.	

Wheat . . . . . . . . . . . . . . . 60 lbs

WEIGHTS OF VARIOUS

### Number of Plants per acre at various distances

In planting trees the greater distance should be given in the richer soils

1 foot apart each way	PART. Method ch way 193 ch way 170 ch way 70 ch way 48 ch way 27	Triangu- lar 223 196 125 81 55

# **ASPARAGUS**

SPARAGUS is one of the earliest Spring vegetables, and would be in universal use were it not for the mistaken idea that it is difficult to grow. In reality it can be produced very easily and cheaply and is a profitable market crop. A bed 15x50 feet, requiring about 100 plants, should give an abundant supply for the average family.

CULTURE—Soak seeds 24 hours in warm water, sow early in drills one foot apart. An ounce of seed will sow about 300 feet of drill. Keep the soil mellow and free from weeds. After one year's growth transplant into permanent beds that have been carefully prepared by working to a depth of 24 inches, manuring deeply, using old manure and bone meal; 5 feet is a convenient width for a bed that will carry three rows, and can be reached without treading upon it. Set the plants about 18 inches apart in the rows and spread the roots out, firming the soil down on them. If your soil is well drained the bed may be level, but if not it must be elevated a little. Give a good dressing of well rotted manure after planting and an occasional application of salt or brine. In the Fall when the foliage turns yellow, cut it off and give a dressing of manure or good commercial fertilizer. A warm, sandy soil is the best, and one which has for some years been cultivated in garden crops and heavily manured is greatly preferred to a fresh soil. But at no period of its growth should the asparagus crop be allowed to lack for manuring. From one to two years' time can be saved by buying roots of us. See plant department. 7260 roots will plant an acre.



#### ARGENTEUIL

A popular French asparagus of great merit; larger and lighter in color and said to be superior to Palmetto; of vigorous, even growth; very early and free from disease. Pkt 5c, oz 10c, 1/4 lb 30c, lb \$1.00

### CONOVER'S COLOSSAL

'A rapid grower producing large uniform stalks of finest quality. This is the famous "Bouldin Island" Asparagus, a superior canning variety, color light green.

Pkt 5c, oz 10c, ½ 1b 30c, 1b \$1.00

### **PALMETTO**

The favorite green asparagus. Extra early and the uniformily large stalks remain tender longer than other varieties, being in prime condition for some days after coming above the ground. Palmetto is disease resistant, and a heavy, sure cropper.

Pkt 5c, oz 10c, ¼ lb 30c, lb \$1.00

# Asparagus Plants

Three Best Varieties as Above

ONE-YEAR-OLD PLANTS—Postpaid, 30c dozen, 75c per 50, \$1.25 per 100. By express or freight, 25c dozen, 65c per 50, \$1.00 per 100, \$7.50

TWO-YEAR-OLD PLANTS—Postpaid, 40c per dozen, \$1.10 per 50, \$1.75 per 100. By express or freight, 30c per dozen, 85c per 50, \$1.50

per 100, \$12.00 per 1,000.

DIAMOND FRUIT FERTILIZER FOR ASPARAGUS Ask for Our Free Booklet "Fertilizers

### Artichoke Large Green Globe

The variety used as a table vegetable. The edible portion is the thick end of leaf of the flower head. Sow early in drills and when about ten inches high transplant into rows four feet apart each way. It will produce only a small crop the first year, but will continue in good bearing five years. Cut before the bud opens. The seedlings are variable and for market gardening they are generally propagated from cuttings.

The buds when in blossom resemble huge thistles and the foliage being highly ornamental, this variety is much used for hedges and Pkt 5c, oz \$1.00 display in parkings.

### Artichoke Jerusalem—White

Distinct from the Globe, belongs to the Sun-flower family. Produces tubers like potato; grown in the same way. A fine vegetable for table and also valuable as hog feed. Price and description under Field Seeds.





# BEANS

For single pounds by mail add 10c postage. Larger lots at parcel post rates.

### Wax or Yellow Podded Kinds DWARF OR BUSH VARIETIES



### PENCIL POD BLACK WAX

"Pencil Pod" is the most satisfactory of the early dwarf Wax Beans.

Of dwarf, bushy growth, about fifteen inches high, large, luxuriant foliage, beneath which in great clusters will be found an enormous crop of beautiful straight yellow pods six to seven inches long, well rounded, deeply "saddle backed," meaty and solid clear through; they are brittle, of rich mild flavor, and entirely stringless. An early sure cropper; of the finest quality. Pkt 15c, 1b 35c, 10 lbs \$3.00

### GOLDEN WAX

Very hardy and productive. A good second early variety of fine quality, but should be picked young to avoid strings. Pkt 15c, 1b 30c, 10 1bs \$2.50

### DAVIS WAX

Rustless and immensely productive, very hardy and one of the best for market gardeners. The dried bean is kidney-shaped, clear white, and a favorite for baking and canning.

Pkt 15c, lb 30c, 10 lbs \$2.50

### WARDWELL'S KIDNEY WAX

Vines are of medium size, with long, flat pods of a delicate, waxy yellow, very brittle and entirely stringless when young. A favorite main crop variety with market men.

Pkt 15c, lb 30c, 10 lbs \$2.50



### IMPROVED BLACK WAX

The standard early market variety, a sure cropper of good quality. Pkt 15c, 1b 30c, 10 1bs \$2.50

# Mulford (

FOR BEANS-increases the yield, enriches the soil. Garden size, 50c; acre, \$1.50.

CULTURE—The soil best adapted for growing beans is a light, rich, well-drained loam, which was well manured for the previous crop. If the ground is too freshly manured the plants are apt to run to vines and set few blossoms. Plant in drills about two inches deep and from eighteen inches to two feet apart, as soon as the ground is dry enough and warm—about May 1st, or later, and for succession up to July 15th. Beans are very sensitive to cold and wet before they have sprouted, but are not so liable to be damaged after they are above ground.



Pencil Pod Wax

Plant about 1 lb. of Dwarf or Bush Beans to 100 ft. of drill, 1 bushel per acre. Pole Beans-1 lb. to 100 hills, requiring about ½ bushel per acre. When planted in hills, 2½ to 3 ft. apart, small varieties such as "Navy" and "Lady Washington" will require from 16 to 25 lbs. per acre; larger sorts running from 25 to 30 lbs. Owing to their short season of growth, from 60 to 80 days, beans generally make a profitable crop for trucking. After harvesting the beans, always plow the vines under to fertilize the soil.

In growing Beans commercially sufficient moisture, freedom from frost from the middle of May to late September, and thorough preparation of the soil with good cultivation, are the requirements for a profitable crop. Closer planting can be practiced where there is plenty of moisture and under dry conditions as too much moisture will not allow the crop to mature properly and close planting will often hasten maturity by absorbing the moisture, growing conditions being favorable.

Anthracnose produces large, scabby, dead spots on the pods and the controlling measures are the selection of clean seed and spraying the plants with Bordeaux Mixture.

Powdery Mildew, showing a white growth of fungus covering the surface of the leaves, especially in rainy or damp weather, should be treated with powdered sulphur.

Cut worms and flea beetles can generally be controlled by the use of "Corona" Arsenate of Lead either sprayed or dusted on the foliage. Ask for booklet "Garden Pests and their Control." See Sprays.



### BEANS—Continued

WING to our mild Winters and cool Summers, locally grown acclimated seed from properly selected strains will be found to give best satisfaction in the Pacific Northwest. We are constantly testing and selecting the most dependable and profitable sorts and increasing our facilities and connections for local production, and when we offer a variety as being suited to your requirements and location you can accept it without fear of disappointment.

Dwarf or Bush—Green Podded Kind For single pounds by mail add 10c postage. Larger lots at parcel post rates.



OREGON GREEN POD

An old-time favorite with marketmen and for home use, being of splendid quality, very hardy, and we believe the most prolific of the green-podded bush beans; is a second early, with long straight, handsome pods, well filled with large white beans, mottled red; bears through a long season. In response to the insistent demand from those who are familiar with its merits, we have grown a fine stock and restored this splendid bean to its place in our list.

Pkt 15c, 1b 30c, 10 1bs \$2.50

#### ROYAL WHITE KIDNEY

One of the most prolific and hardy green podded bush beans. Of excellent quality as a green bean and later as a shell bean. The large white beans are also superior as a dried bean Pkt 15c, 1b 20c, 10 lbs \$1.75 for baking.

### CASTOR BEAN

(For Ornamental Varieties see Flower Seed) Used for medicinal purposes and by some claimed to keep moles away. Castor beans are very ornamental, the plants and foliage being large and tropical in appearance. Pkt 15c, lb 35c

### STRINGLESS GREEN POD Extra Early

The finely shaped, long green pods are absolutely stringless, and are ready to market two weeks earlier than any other green-podded bean. It is of immense value, not only to the market gardener, but also for those who seek early beans of a rare quality for the home table. A splendid dried brown bean. Pkt 15c, 1b 30c, 10 lbs. \$2.50

#### CANADIAN WONDER

This splendid bush bean is the largest, most prolific of the green-podded sorts, and is entirely stringless in its early development. Comes a little later than the New Stringless Green Pod, but continues in bearing throughout the season, and is excellent shelled green.

Pkt 15c, 1b 30c, 10 lbs \$2.50

REFUGEE, OR THOUSAND TO ONE Of great value on account of its hardiness, vigorous growth and wonderful productiveness.

Is not excelled by any other variety as a snap bean, and is considered the best for pickling or brown. Pods of perfect form, dark green, veined brown. Pods of perfect form, dark green, veined 15c, 1b, 30c, 10 lbs \$2.50 purple. Pkt 15c, 1b 30c, 10 1bs \$2.50

### DWARF HORTICULTURAL

or "Cranberry Bean"

Grows erect, strong and shrubby, and is very prolific. The bean is highly prized, green shelled. It is rather large, plump and beautifully mottled yellow and red; one of the most delicious and desirable beans and a great favorite with market gardeners. The dwarf type of the old favorite London Horticultural Pole Bean.

Pkt 15c, 1b 30c, 10 1bs \$2.50

#### LADY WASHINGTON

Sturdy, bushy plant, erect habit, and is a great improvement over the old "Navy," being much earlier, a little larger, and a very heavy yielder; being especially adapted to our Western soils, and is entirely free from disease. Bush attains a height of about fourteen inches, and beans mature in September. Pkt 15c, lb 20c, 10 lbs \$1.60

### **BROAD WINDSOR** "Horse Beans"

Stalk erect, strong and shrubby. The bean is large, broad and flat; should be planted early and is best green shelled. A European variety, very hardy and can be planted earlier than other sorts. Grown extensively for stock in some sections. Pkt 15c, lb 20c, 10 lbs \$1.60

### WHITE NAVY

Grown extensively for marketing dry shelled. The best known small white bean. Dwarf in growth and very productive.

Pkt 15c, 1b 20c, 10 1bs \$1.75

Mulford Cultures For Beans increases the yield, enriches the soil. Garden size 50c, acre \$1.50, 5 acres \$5.00, postpaid.



### CLIMBING OR POLE BEANS

For single pounds by mail add 10c postage Larger lots at parcel post rates

CULTURE—Do not plant until the soil has become warm and the weather settled—and always remember beans should have rich, well drained soil. It is best to set the poles before planting; these should be six to eight feet high, rows about four feet each way. Plant four to six beans to the hill and thin to two or three, depending on the variety. If trellis is used, sow in hills about one to two feet apart in the row. A pound should plant 75 to 100 hills. A top dressing of commercial fertilizer or old manure should be worked in when cultivating.

KENTUCKY WONDER

A vigorous climber; very prolific, bearing in clusters extremely long and very fleshy, succulent pods; flat, thick and remarkably tender. A first-class pole variety. Pkt 15c, lb 30c, 10 lbs \$2.50

### ASPARAGUS BEAN

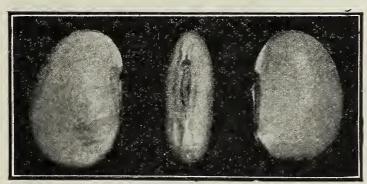
The True Asparagus Bean is superior to Kentucky Wonder in quality and fully equal in productiveness. The long, slender pods are very fleshy, almost round, crisp, tender and delicious, of a beautiful pale green color, attractive form and absolutely stringless. They grow vigorously and bear heavily.

Pkt 15c, 1b 30c, 10 1bs \$2.50

### KENTUCKY WONDER WAX

The most popular of the wax pole beans. Has every desirable quality and where a wax or yellow podded variety is preferred, it is sure to please.

Pkt 15c, 1b 30c, 10 lbs \$2.50



Oregon Pole Lima

#### OREGON POLE LIMA

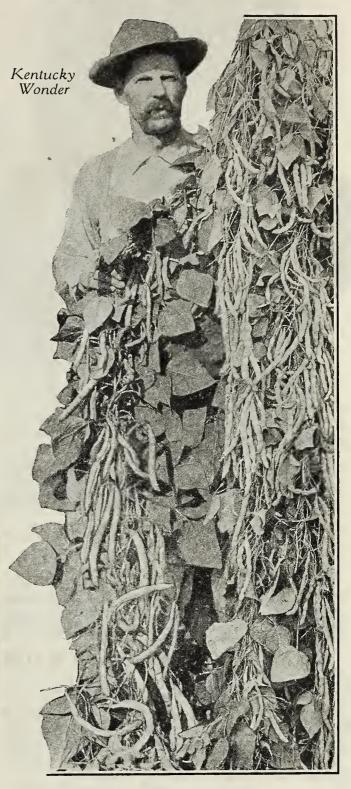
The only Lima Bean that will thrive in our cool climate

Oregon Pole Lima grows a strong, thrifty vine and is very prolific, bearing continuously until frost, the blossoms bursting from the top shoots in long panicles, while the pods can be seen in every stage of development, to the matured beans at the bottom of the vine. Pods are well filled, having three to five large beans of the finest quality.

Oregon Pole Lima can be planted in any garden soil as early as April or late as July. Give the same care and culture as other Beans, and they are ready to use when the pods are filled and first begin to ripen. They are at their best when the full green pods begin to turn yellow. Try "Oregon Pole Lima." It is a wonder, sure

Try "Oregon Pole Lima." It is a wonder, sure to grow, and will produce more fine beans of delicious table quality than any variety we know of.

Pkt 25c, 1b 40c, 10 lbs \$3.50



### LAZY WIFE

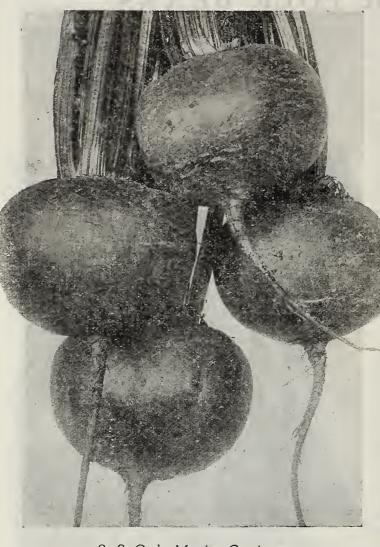
Pods are from four to five inches in length, produced in large clusters in great abundance. Dark green, thick, fleshy and stringless; of unusually rich flavor. Dry beans, pure white; excellent for winter use. Pkt 15c, 1b 30c, 10 1bs \$2.50

#### SCARLET RUNNER

A favorite as a shell bean and for its flowers, which are bright scarlet; seeds broad and kidney shaped.

Pkt 15c, 1b 30c, 10 1bs \$2.50

For BEANS use 350 lbs. per acre of our DIAMOND VEGETABLE FERTILIZER



S. S. Co.'s Market Gardener

### EXTRA EARLY EGYPTIAN

The best variety for forcing, and for market gardeners, being very early with small tops. Roots very dark red, rounded on top, but flat beneath, with very small tap roots.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.25

### LONG SMOOTH DARK BLOOD

The leading late variety, keeping well all Winter. Should be planted in rich, warm soil to secure rapid growth, which makes them tender. Top small, root long and smooth. Flesh deep purple, fine and sweet.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.25

#### SUGAR BEET

KLEIN WANZLEBEN—This is the standard variety grown commercially for the production of sugar.

Pkt 10c, oz 15c, 1/4 lb 35c, lb \$1.25, 10 lbs \$10.00.

# BEETS

CULTURE—The Beet is hardy and may be planted as soon as the ground can be well prepared, doing best in rich, sandy soil, sown in rows sixteen inches apart, covered one and one-half inches deep. The seed will sprout better if soaked twenty-four hcurs in warm water before planting. Thin out by using the largest ones when they are of sufficient size, continuing until they are six or eight inches apart in the rows. For field crop, the rows should be far enough apart to permit the use of a horse

### S. S. CO.'S MARKET GARDENER

This new, extra early Beet is remarkable for its fine quality and rapid growth; it is of deep red color and handsome shape; as an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance and of superior quality for the table, holding its color and cooking quickly. Market gardeners prefer it as it matures evenly, stands a long time and does not split.

Pkt 10c, oz 15c, 1/4 lb 45c, lb \$1.50

### DETROIT DARK RED TURNIP

A fine Beet for bunching for market; tops exceptionally small and uniformily upright. The roots are perfect turnip shape with small taproots. One of the deepest red beets. Quality is of the finest; sweet and tender, one of the best beets for home gardens.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.25

### EARLY ECLIPSE

One of the best early sorts. It possesses all the qualities requisite in a first class beet, and is of a uniform, globular shape. The roots are a bright, glossy red, fine-grained and delicious.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.25

### HALF LONG BLOOD

A new variety of excellent quality. One of the very best for Winter use; does not become woody and keeps as well as the long Dark Blood. The root is smooth and handsome, and the flesh is brilliant in color and as good in quality as the best Blood Turnip varieties. Give it a trial.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.25

### EARLY BLOOD TURNIP—IMPROVED

An extra selected stock of blood turnip having larger, coarser tops and roots than the Detroit Dark Red, and requiring a longer time to mature. Excellent for Summer and Autumn use.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.25

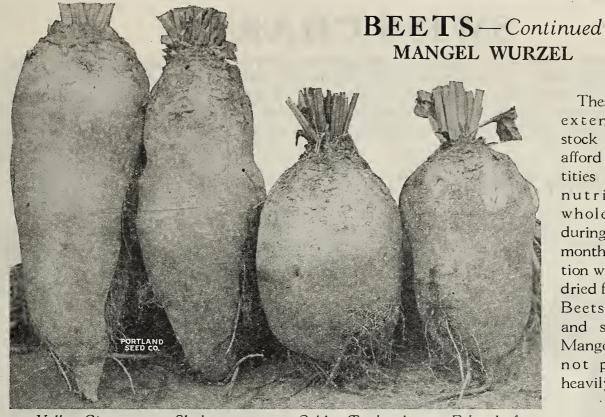
# Commercial FERTILIZERS Profitable

A 100-lb. Bag of High Grade Commercial Fertilizer will contain more soluble and avail-

able plant food than 4,000 pounds (two tons) of stable manure of average quality. How much easier and cleaner to handle one 100-pound bag than 2 tons of manure, and there are no weed seeds to worry over.

Free Booklet, FERTILIZERS, tells what fertilizers are best and how to use them profitably.





These are grown extensively for stock feeding, and afford large quantities of fresh, nutritious and wholesome food during the Winter months, in connection with grain and dried forage. Sugar Beets are richer and sweeter than Mangels, but do not produce as heavily.

Yellow Giant

Sludstrup

Golden Tankard

Eckendorf

CULTURE OF MANGEL AND SUGAR BEETS—Thoroughly fine soil as good roots cannot be grown in lumpy, poorly prepared ground. The largest crops come from a soil ranging from light to a friable clay loam that has received from eight to fifteen loads of manure to the acre. This can be plowed in or half broadcast and half used in the furrows; a deep plowing in of fresh manure in the Fall is best. It is also necessary to add some commercial fertilizer, but any good soil will grow a fair crop.

Use 6 to 10 pounds of seed to the acre, depending on whether machine or hand planting is used, planting liberally so that in thinning an even stand can be secured. The rows can be 18 to 30 inches apart, depending upon soil and method of culture. Level culture is best. If planted during dry weather, be sure the seed is in from one and one-half inches as it requires lots of moisture to burst the hard shell.

A poor stand and weak germination is often due to improper planting and lack of moisture. Transplanting can be successfully done to fill vacancies. Do this before a shower, and early, breaking off the tops of the larger leaves.

Like all root crops, they require clean culture. Thin early, giving two thinnings and leaving the

plants 10 to 12 inches apart. The medium sized roots have the greatest food value.

Forty to sixty tons is a fair yield of Mangels. Sugar Beets, 10 to 13. Beets are easily spoiled even by light freezing and should be cut and stored to protect from frost, covering with a little soil to prevent evaporation.

### YELLOW GIANT, INTERMEDIATE or Gate Post

Roots very large, growing over one-half out of the ground; flesh white, sweet and tender; tops bright green, comparatively small; neck small, short. Its fine flesh never becomes woody and the crop is easily harvested.

Pkt 5c, oz 10c, ¼ lb 25c, lb 80c, 10 lbs not postpaid \$7.00.

### GIANT RED ECKENDORF

Is of straight, cylindrical form, very blunt, and grows mostly above the surface. Awarded

a first-class certificate as a very heavy cropper. Pkt 5c, oz 10c, 1/4 lb 30c, lb 90c, 10 lbs not postpaid \$8.00.

### MAMMOTH LONG RED

An improvement on the Long Red, with ordinary cultivation. If you want a large crop of large Mangels of good quality, don't fail to try Very uniform, smooth and of good shape. Should be grown in deep loose soil.

Pkt 5c, oz 10c, ¼ 1b 25c, 1b 80c, 10 1bs not postpaid \$7.00.

### NEW MANGEL HALF SUGAR

A new variety, more valuable for feeding purposes than the old sorts, yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beets. Roots large, very smooth, with few rootlets; creamy white in color, with medium sized tops.

Pkt 5c, oz 10c, 1/4 lb 25c, lb 80c, 10 lbs not

postpaid \$7.00.

### GOLDEN TANKARD

Dairy farmers state they are able to obtain a higher price for milk when feeding cows on "Golden Tankard." Sheep thrive on it. "Golden Tankard" is a rich, deep yellow throughout. Early, hardy and a heavy cropper.

Pkt 5c, oz 10c, ¼ 1b 30c, 1b 90c, 10 1bs not postpaid \$8.00.

### DANISH SLUDSTRUP

Long, reddish-yellow, grows well above the ground, and is easy to pull. Has repeatedly been awarded a first class certificate by the Danish

Pkt 5c, oz 10c, 1/4 lb 25c, lb 80c, 10 lbs not

postpaid \$7.00.



# SWISS CHARD

New Savoyed Leaf "LUCULLUS." An improved variety of "Swiss Chard," growing about two and a half feet high. The heavy stalks are over an inch thick and bare for more than a foot of their length. The leaves make the finest of "greens." By cutting back the leaves close to the ground tender shoots spring up quickly, these or the mid-rib are very delicious cooked as asparagus. Swiss chard is hardy, easily grown and should be in every garden. It is one of the most delicious Pkt 10c, oz 20c, 1/4 lb 60c, lb \$2.00 of all vegetables.

### **BRUSSELS SPROUTS**

The plants, which are very hardy, grow two or three feet high, and produce, from the sides of the stalks, numerous little sprouts, which resemble very small cabbages one or two inches in diameter.



Brussels Sprouts

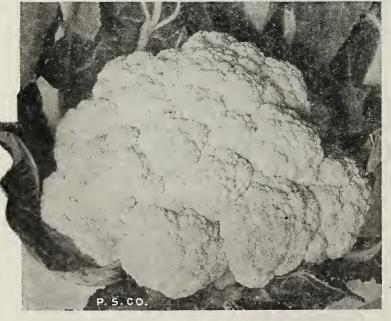
leaves should be broken down in the Fall, to give the little heads more room to grow. They should be treated in all respects like Winter Cabbage or Kale.

### **DWARF IMPROVED**

A carefully grown strain, very hardy and giving compact, round sprouts of large size and good quality.

Pkt 10c, oz 30c, 1/4 1b 90c.

"Cabbages, Cauliflower, Broccoli, by Gregory Price per copy, 45c



St. Valentine Broccoli



Swiss Chard "Lucullus"

# BROCCOLI

or Winter Cauliflower

Broccoli is so nearly related to late Cauliflower that the varieties are often listed under both heads—the principal difference being in the hardiness and time of maturity, Broccoli not heading until late Winter or early Spring. Culture is same as for late Cauliflower, and good, rich, well-drained bottom land is best, but well-tilled, well-fartilized upland will produce a good crop fertilized upland will produce a good crop.

The St. Valentine Broccoli, which we introduced some years ago, is the variety extensively grown by commercial planters many carloads being shipped from Oregon each season.

### ST. VALENTINE—The Finest of All Broccoli

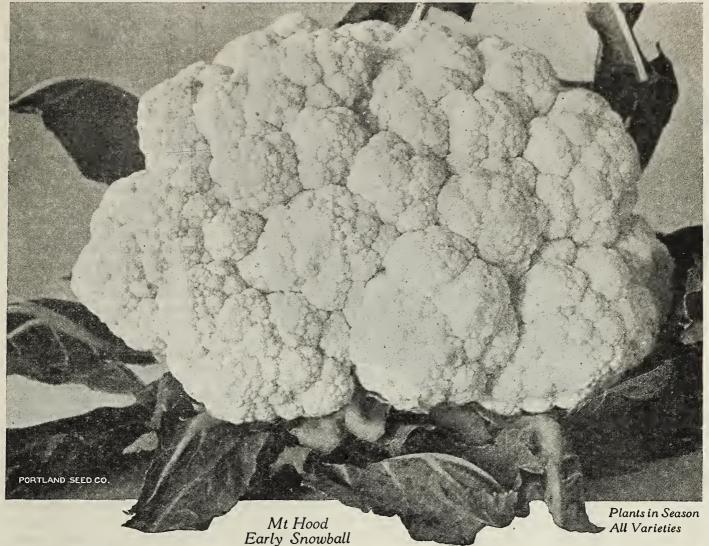
This grand new strain introduced by us is a sure header of immense size, finest quality, and is ready for market in February. The large, solid, handsome, white heads remain in good condition longer than other varieties.

Pkt 15c, ¼ oz 50c, oz \$1.25, ¼ lb \$4.00, lb \$14.00.

Vegetable Plants Thrifty, well grown, true to name standard varieties in any quantity for seasonable delivery. See Plant Department



# **CAULIFLOWER**



CULTURE—The Cauliflower succeeds well in any soil where cabbage will grow but best results are obtained in rich loam with an abundance of water. By sowing early varieties in a hot bed in February or March, or later in a cold frame, fine heads can be obtained quite early. For a later supply, sow seed in a prepared bed in May, choosing a cool, moist place. When large enough transplant, making the rows about two and a half feet apart and eighteen inches between the plants. In dry seasons the crop must be watered.



### S. S. CO.'S "MT. HOOD" EARLY SNOWBALL

The seed that produces those handsome large white solid heads that bring big profits to the gardener. We offer our "Mt. Hood" Cauliflower seed in sealed packets only, under our own label, it having been carefully selected and grown for us by one of the very few expert Cauliflower growers, and is the best strain of "Early Snowball" obtainable. We especially recommend "Mt. Hood" Snowball for either early or late planting.

Pkt 25c, 1/4 oz \$1.50, oz \$5.00, 1/4 lb \$16.00



#### EARLY SNOWBALL

Ordinary strain. This is the regular grade of "Early Snowball" that is generally offered, and while it will not give as good results as "Mt. Hood," can be depended upon to produce a good crop. Pkt 15c, ¼ oz \$1.00, oz \$3.00, ¼ 1b \$10

#### **AUTUMN GIANT**

The heads are white, large, compact and thoroughly protected by foliage.

Pkt 10c, 1/4 oz 40c, oz \$1.50, 1/4 1b \$5.00

### DANISH GIANT—DRY WEATHER **CAULIFLOWER**

"Danish Giant" is an early, large, solid white Cauliflower that can successfully withstand a drouth that would prove fatal to other varieties and will thrive splendidly in dry sections, being peculiarly adapted to their growing conditions, but like all cauliflower must have rich soil and cultivation to give best results. "Danish Giant" can also be grown under moist conditions and is a dependable market variety. If your location is subject to drouth or you are "dry farming," be sure to plant "Danish Giant."

Pkt 25c,  $\frac{1}{4}$  oz \$1.15, oz \$4.25,  $\frac{1}{4}$  lb \$14.00

### LARGE ALGIERS

A valuable late sort, sure to head, of the best quality and very popular with market gardeners everywhere. Plants large, but of upright growth. the leaves protecting the heads so that they will endure, uninjured, a frost that would ruin other sorts. One of the very best of the late varieties.

Pkt 10c, 1/4 oz 60c, oz \$2.00, 1/4 lb \$6.00

Don't Buy cheap strains of Cauliflower Seed. Only the best select strains can be depended upon to produce a big percentage of large, white, solid heads





It is important that the plants should not be crowded in the seed bed, or they will run up weak and slender and produce many long stems.

### EARLY JERSEY WAKEFIELD

The favorite Early Cabbage with our market gardeners. A sure header. The thick, stout leaves and compact habit make it the best for Wintering over and very early setting.

Grown more extensively for market than any other early cabbage. Is always of good size, very solid, and has but few outside leaves; a reliable header and always gives good satisfaction.

Pkt 5c, oz 35c, 1/4 lb \$1.25, lb \$4.00

# CABBAGE

CULTURE—The requisites for complete success are: First—Good seed. There is no other vegetable where the

seed has so much influence on the quality of the product, and gardeners should always use the best procurable. Second—Rich, well prepared ground. Third—Frequent and thorough cultivation. A heavy, moist and rich loam is most suitable, which should be highly manured and worked deeply. Cabbage is universally grown and specific direc-

tions regarding the time and method of planting applicable to all localities cannot be given. In general, the early sorts should be sown very early in hot beds, hardened off by gradually exposing to outside air, and as early as the ground is in good condition, transplanted, setting 18 to 36 inches apart, according to size of variety. The late Autumn and

Winter varieties may be sown from the middle to the last of Spring and transplanted when four to six inches high. Shade and water the late sowings in

dry weather to get them up.

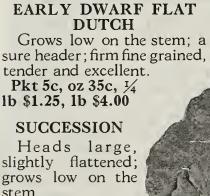


#### COPENHAGEN MARKET

A Splendid Cabbage for Home Gardens

A splendid early globe-shaped Cabbage slightly flattened. The large solid heads are very uniform, with few outer leaves, keeps well and stands handling. **Copenhagen Market** originated in Denmark, where it is the favorite market variety, and we recommend it to our customers as the best early round head.

Pkt 10c, oz 50c, 1/4 lb \$1.50, 1b \$5.50



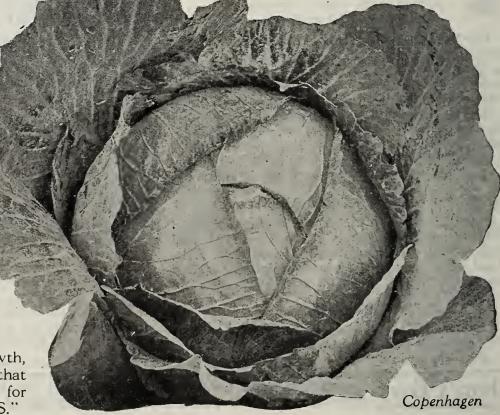
Pkt 5c, oz 35c, 1/4 lb \$1.25, lb \$4.00

Fertilize
your Cabbage with

Diamond Onion Fertilizer

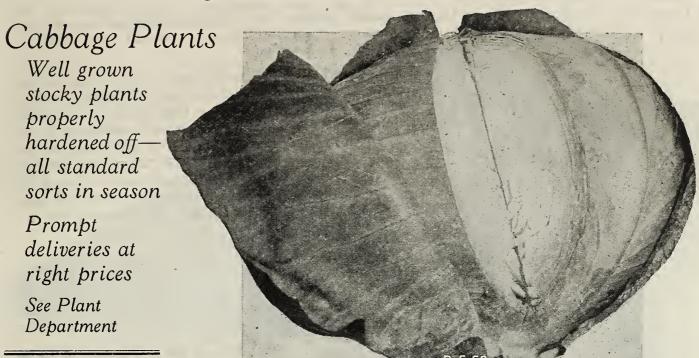
1000 lbs. per acre

Promotes a quick, even growth, developing crisp, solid heads that command highest prices. Ask for our Booklet "FERTILIZERS."





### CABBAGE—Continued.



### DANISH BALLHEAD Select Short-Stem

Our strain of short stem Ballhead is imported direct from Denmark, originating on the famous island of Amager, the vegetable garden of Copenhagen.

The fine ribbed leaves are so densely packed together that no space is left for water or air to start decay and the firm solid heads are famed for their superior excellence and keeping qualities. Matures late and when cut shows a fine, hard, snowy white, solid head. The best in its class. Pkt 10c, oz 40c, ½ 1b \$1.35, 1b \$4.50



Late Flat Dutch

### PREMIUM LATE FLAT DUTCH

This improved strain possesses all the good qualities of the old favorite, "Late Flat Dutch," me of the largest of the late varieties and is a sure header. Pkt 5c, oz 35c, 1/4 lb \$1.25, lb \$4.00

### DANISH ROUND HEAD

S S. Co.'s Select Short Stemmed Ball Head

# Select Short Stem

A round ball shaped cabbage of great solidity. Color, rich dark green, has few outer leaves, is very hardy and a profitable late market variety. Our stock of Round Head is Danish grown and of the same superior quality as the short-stem Ballhead, being one of the latest keepers and best varieties for early Spring onarket. Pkt 10c, oz 40c, ¼ lb \$1.35, lb \$4.50

### RED CABBAGE—Odense Market

Used for pickling. The heads are very fine and remarkably sure heading. We believe this to be the best red cabbage.

Pkt 5c, oz 40c, 1/4 lb \$1.35, lb \$4.50

### SAVOY CABBAGE Vertus—Late Savoy

Large, compact heads; crisp and tender with a rich flavor. Desirable for cooking or salads. Pkt 5c, oz 40c, ¼ 1b \$1.25, 1b \$4.25



Chinese Cabbage

#### CHINESE CABBAGE

Similar to the Cos Lettuce in form. Leaves are tender and crisp and can be used either raw or cooked. Has a mild cabbage flavor and is excellent for salads. Easily and quickly grown but does not thrive in hot weather. Sow seed after July 1st.

Pkt 10c, oz 50c, 1/4 lb \$1.50, lb \$5.

If you grow cabbage, kale, cauliflower, celery, you need a Master's Planter Endorsed by the Washington State Experiment Station, Bulletin No. 6.—See Planters



# CARROTS

CARROTS, aside from being one of our most useful and easily grown garden vegetables, are invaluable for stock feeding. They are greatly relished, promote health and put a sleek coat on cattle and horses, giving a well-kept appearance. Dairy and stockmen should grow them extensively. For their special use we recommend our "Yellow Giant."



S. S. Co's New Coreless

CULTURE—A sandy loam is the best soil for the carrot, but any good land, if thoroughly and deeply worked, will produce satisfactory crops. Sow as early in the Spring as the ground is fit to work, though good crops may be grown from sowing as late as June 15. For table use, sow the smaller kinds in rows 16 to 18 inches apart, and for field culture prepare the ground thoroughly and sow in drills 18 to 24 inches apart. Cover one-half to one inch deep and see to it that the soil is well firmed above the seed.

### S. S. CO.'S NEW CORELESS

A splendid new carrot. Larger than other early varieties. Crisp, solid, of fine flavor and entirely coreless, grows smooth and uniform, a true stump rooted type. The very best for canning or drying as it is coreless and has no tap root to trim off and waste. Holds its color and cooks quickly. The ideal carrot for home gardens.

Pkt 10c, oz 20c, 1/4 lb 60c, lb \$2.00

### EARLY SCARLET HORN

The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop. Pkt 5c, oz 10c, 1/4 lb 30c, lb \$1.00

### CHANTENAY

### The Market Gardener's Favorite

Tops, medium sized; necks, small; roots, tapering slightly, but uniformly stump-rooted and smooth; color, deep orange red; flesh, very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any; is a heavy cropper, and is undoubtedly one of the best for both the market and private garden, while its great productiveness makes it very desirable as a field, sort.

Pkt 5c, oz 10c, ½ 1b 30c, 1b \$1.00

### OXHEART

A thick carrot, five or six inches long and very blunt at the ower extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor.

Pkt 5c, oz 10c, 1/4 lb 30c, lb \$1.00

#### DANVER'S HALF LONG

Grown largely on account of its productiveness and adaptability to all classes of soil. Tops, medium sized, coarsely divided. The smooth, handsome roots are of medium length, tapering uniformly to a blunt point; flesh, sweet, crisp, tender; deep orange in color. Although the roots of this variety are short, they produce as large bulk as the longer field sorts, and are more easily harvested.

Pkt 5c, oz 10c, 1/4 lb 30c, lb \$1.00

#### S. S. CO.'S IMPROVED LONG ORANGE

Popular for farm use on deep, mellow soil. Our stock is an improvement obtained by years of careful selection of the best formed and deepest colored roots, which grow to a large size, some specimens averaging twelve inches in length. Enormous crops can be grown under fair culture; one of the best varieties for feeding stock.

Pkt 5c, oz 10c, 1/4 lb 30c, lb \$1.00

USE DIAMOND VEGETABLE FERTILIZER FOR CARROTS Our Book "FERTILIZERS" tells how to profitably use Fertilizer. Tells what you should get for your

money when you buy Fertilizers—a book every grower should have and is FREE FOR THE ASKING



# Good and Productive Stock Carrots



# S. S. CO.'S YELLOW GIANT Specially Adapted to Moist, Heavy Soils

This new Carrot originated at the Sydney, Australia, Experimental Station, and has proved itself to be the earliest and most productive stock carrot offered to date. It is a half long variety, with an immense broad shoulder. The Carrot penetrates less than one-half the depth into the ground, which saves about one-half the expense of harvesting the crop. The color is of bright yellow, and is perfection itself for giving the proper color to butter. Every dairyman who wants a big crop of carrots of the right quality and easy of culture should plant our Yellow Giant.

Pkt 5c, oz 10c, 1/4 lb 30c, lb \$1.00

# IMPROVED SHORT WHITE—"MASTODON" Of Excellent Table Quality

Ranks as a field carrot, owing to its enormous productiveness and the ease with which it can be harvested. Roots half long, smooth, very heavy at the shoulder, but tapering regularly at the point; color, light green at the crown, white below; flesh, rich white, solid, crisp and of excellent flavor

Pkt 5c, oz 10c, ½ 1b 30c, 1b 90c

LARGE WHITE BELGIAN

Extensively grown for stock feeding; very productive. Grows so much above the ground that the entire crop can be pulled by hand.

Pkt 5c, oz 10c, 1/4 lb 30c, lb 90c

YELLOW BELGIAN

Large root; yellow flesh; good keeper for late feeding. Pkt 5c, oz 10c, 1/4 lb 30c, lb 90c

### CRESS

#### Curled, or Pepper Grass

This salad is much used with lettuce, to which its warm, pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart, on very rich ground, and the plants well cultivated. It may be planted very early.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.00

#### CORN SALAD

#### Fetticus, or Lamb's Lettuce

A refreshing salad, used extensively in Winter and Spring as a substitute for lettuce. It is often cooked like spinach Sown in drills one foot apart, in the Spring or Fall. On the approach of cold weather cover over with straw or coarse litter.

Pkt 5c, oz 25c, ½ lb. 75c

CHIVES—Chives belong to the onion family and the tops are used green for flavoring and garnishing. They grow in little clumps and can be supplied as plants any time in the early spring. Seeds are listed under herbs.

Pkt 5c, oz. 25c, ½ 1b. 75c

### If You Milk Two Cows -

If you MILK 2 or MORE COWS YOU SHOULD HAVE A "SHARPLES." You pour the milk into the low supply tank and turn the handle—when the milk is drawn into the bowl it is separated perfectly at any speed—you know what that means if you ever used a separator.

The New Sharples Suction Feed Separator saves work—saves time—saves money—we can prove this to your satisfaction.

We are factory agents for Sharples Cream Separators and Milking Machines—full information on request.

White

Plume

Celery

Plants

Large

Healthy Transplanted

Plants in Standard

Varieties for

Any Number

Right Prices

See Plant

Department

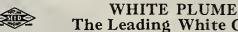
Delivery in

Season



### CELERY

CULTURE—Sow the seeds early, about February, in a hot-bed or cold frame. When three inches high transplant, setting them four inches apart. When grown six inches, and fine, stocky plants, set in richly manured, deep soil, in rows three and a half feet apart and about nine inches from plant to plant. Water if dry weather follows transplanting. During the next two months all the attention that is required is to keep down the weeds. Blanch by placing boards along the rows, or earth up a little, and continue doing so at intervals until only the tops of the leaves are visible late in Autumn. Never hoe up the earth when plants are wet. One ounce of seed produces about six thousand plants. See footnote on growing.



The Leading White Celery A handsome, crisp sort, of very easy cultivation. Naturally its stalks and portions of its inner leaves

and heart are white, so that by closing the stalks either by tying or by simply drawing soil up against the plant and pressing it together, the work of blanching is completed without the troublesome process of "banking" or 'earthing up." It is the earliest celery known.

Pkt 5c, oz 25c, 1/4 lb 90c, lb \$3.00

### GOLDEN YELLOW SELF-BLANCHING

This is no doubt the best celery for early Spring market use. Plants are of a yellowish green color when young, but as they mature the inner stems and leaves turn a beautiful golden yellow, which adds much to their attractiveness and makes the work of blanching much easier.

Pkt 10c, oz 45c, 1/4 lb \$1.40, lb \$5.00

### GOLDEN HEART, OR GOLDEN DWARF

Grows a compact, crisp, solid stalk of fine, nutty flavor. Pkt 5c, oz 20c, 1/4 lb 50c, lb \$1.50

WINTER QUEEN

This is without doubt the most valuable variety of celery for Winter and Spring use ever introduced. Has double the amount of heart of any known celery. The plant has a fine appearance, of compact growth, and blanches to a beautiful cream-white. Ribs perfectly solid, crisp and a delicious nutty flavor.

Stored for Winter or Spring use, it is an excellent keeper and when taken out the blanched stalks will be firm and crisp; entirely free from strings; brittle and of sweet flavor.

Pkt 5c, oz 25c, 1/4 lb 75c, lb \$2.50.

### GIANT PASCAL

Largest variety grown; of fine, nutty flavor; very easily Pkt 5c, oz 25c, 1/4 lb 75c, lb \$2.50 blanched. CELERY SEED. For flavoring. Oz 10c, 1/4 lb 20c, lb 65c

CELERIAC Turnip Rooted Celery

Large Smooth Prague

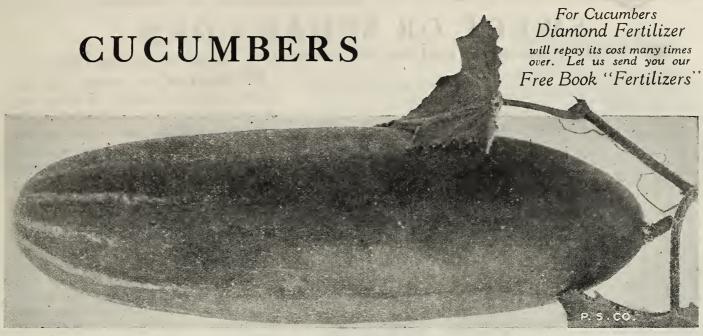
Improved form with very few side The largest and best variety.

Pkt 5c, oz 25c, 1/4 1b 75c

To Succeed with Celery you must keep your plants growing constantly while young, if you allow them to "stand still" they will run up to seed later. Always cultivate as soon after watering as the ground is dry enough to work well. Fertilize heavily in the Spring—and use nitrate later if needed.

DIAMOND FERTILIZERS FOR CELERY READ OUR FERTILIZER BOOK. MAILED FREE ON REQUEST





Diamond Long Green

CULTURE—Cucumbers need a warm, rich soil, and should not be planted in open ground unti' weather is settled, as otherwise they will not thrive. Plant in hills four feet apart each way, thinning to three or four of the strongest plants, after danger from insects is passed. As fast as the cucumbers cliain suitable size they should be taken from the vine, whether required for use or not, as their ripening soon destroys the vines' usefulness.

### "DIAMOND" LONG GREEN

The leading large variety. Fruit from ten to twelve inches long, dark green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles. We offer our "Dia-"—they will grow long and uniform Pkt 5c, oz 15c, 1/4 lb 50c, lb \$1.75 mond Strain' in shape.

### PEERLESS, OR EARLY WHITE SPINE

One of the best sorts for table use, fruiting early and abundantly. Fruit uniformly straight and handsome; light green, with a few white spines. Pkt 5c, oz 10c, ¼ 1b 35c, 1b \$1.25

### SHORT GREEN, OR EARLY FRAME

An excellent sort for both table use and pickling. Fruit straight, small at each end, bright green, with crisp, tender flesh. Comes into use a little later than the Early Cluster and keeps green a long time.

### Pkt 5c, oz 10c, 1/4 lb 35c, lb \$1.25

### TELEGRAPH—FORCING

A standard forcing variety, very popular with gardeners. Fruit fourteen to sixteen inches long, of very fine quality. A sure and heavy cropper.

### LEMON CUCUMBER

This dainty little cucumber resembles a lemon both in form and color, having a distinctive flavor superior to and not found in any other cucumber. The Lemon Cucumber is so prolific that a single vine will be ample for the needs of the average family. It is also said that the Lemon Cucumber can be eaten without fear of the harmful results that some experience from eating cucumbers

### Pkt 5c, oz 20c, 1/4 lb 55c, lb \$1.75

### JAPANESE CLIMBING

A useful variety for growing on a trellis or wire. The cucumbers are long, of a dark green color, white flesh, crisp, and of a good flavor. Pkt 10c, oz 20c, 1/4 lb 50c and of a good flavor.

### BOSTON PICKLING, OR GETIN **PROLIFIC**

Color, bright green, and a grea producer. The fruits average four to five inches in length when large enough for slicing, and are of excellent quality, but it is for producing medium sized pickles that this variety is so highly este med.

### Pkt 5c, oz 10c, 1/4 lb 35c, lb \$1.25

### "THE DAVIS PERFECT" CUCUMBER

The "Davis Perfect" is of perfect form, large size and of the finest color; is crisp, delicious and almost seedless. This fine variety comes from the originator of the Davis Wax Bean and is one

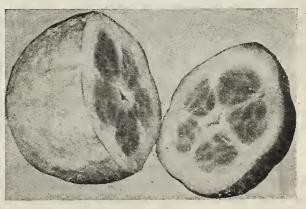
of the most valuable varieties for home or market.
The "Davis Perfect" is as handsome, grown outside, as any hothouse cucumber.

Pkt 5c, oz 15c, 1/4 lb 50c, lb \$1.75

#### EARLY CLUSTER

Fine, vigorous, producing the bulk of the crop near the root and in clusters. Fruit short with uniformly thick end, dark green, but paler at blossom end. A very productive sort.

Pkt 5c, oz 10c, 1/4 lb 25c, lb 75c



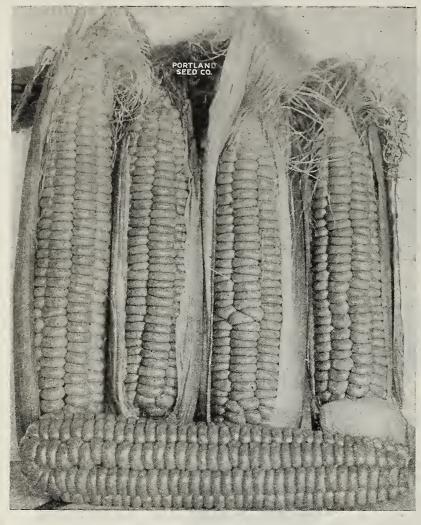
Lemon Cucumber

"CORONA DRY" Powdered Arsenate of Lead will protect Cucumbers and other vegetables from leaf-eating insects. Ask for a free copy of "Garden Pests and Their Control."



### SWEET OR SUGAR CORN

For single pounds, by mail, add 10c postage; large lots at parcel post rates



Golden West

EARLY WHITE CORY—Mammoth

The stalks are no larger than those of the "White Cob but each stalk furnishes two or more large, fineshaped ears, which are fit for use before those of most other The ears are 12-rowed, very symmetrical and hand-The grain is large, broad, very white and of re-bly good quality. Pkt 15c, lb 25c, 10 lbs \$2.35 markably good quality.

### EARLY MINNESOTA

This old and deservedly popular variety is one of the best early sorts for the market and the private garden. Pkt 15c, lb 25c, 10 lbs \$2.35

### COUNTRY GENTLEMEN

The sugary sweetness and delicious flavor make this old-time favorite one of the most desirable varieties. The slender white irregular kernels are very long, the cob small, making much more to the ear than other varieties.

Pkt 15c, 1b 30c, 10 lbs \$2.75

### BLACK MEXICAN

An old favorite still in good demand on account of its quality and sweetness. A good variety for home gardens. Pkt 15c, lb 30c, 10 lbs \$2.75

#### STOWELL'S EVERGREEN

Remarkable for remaining a long time in a fresh condition suitable for the table. Hardy and productive and the best late variety for general use. Pkt 15c, lb 25c, 10 lbs \$2.35

CULTURE—Corn should not be planted until the ground is warm, as the seed will rot in cold, damp soil, or if planted too deep. Late April is early enough for first plantings and for succession plant every two weeks through May and June. Cover the first planting very lightly, increasing the depth a little for the later plantings. For the Dwarf Early varieties, rows should be three feet apart; for later large varieties, four feet, and the hills two to three feet in the rows.

Sweet or Sugar varieties are used both for table and stock feeding, some of the large later sorts being preferred for silos and fodder.

### 

### GOLDEN WEST Oregon Grown Seed

The richest, sweetest corn ever grown—To be sure of the right strain, look for our Diamond trade mark on every

package

Our "Golden West" Corn, a selection from the original strain of Golden Bantam, produces a larger ear, has a more vigorous growth, and by continued careful selection, improves yearly. We believe it to be the richest, sweetest, best yielding early sweet corn. "Golden West" is extremely hardy, can be planted earlier than other varieties, and, being of dwarf habit, can be planted closer than other sorts. It is the very best corn for market or home gardens, where earliness and quality are considered. The color is a rich, creamy yellow, deepening to golden as it matures, and the quality is so fine that you must try it to appreciate how good corn can be.

Pkt 15c, lb 30c, 10 lbs \$2.75

### GOLDEN BANTAM

The original yellow sweet corn. Does not grow quite as large an ear as our "Golden West," but has most of its good qualities; early, productive, sweet and rich. Pkt 15c, lb 25c, 10 lbs \$2.35

#### EARLY EVERGREEN

The Best Second Early Sweet Corn

In the New Early Evergeeen we have a selection possessing every good quality of Stowell's Evergreen, and resembling it in every respect, except that the stalk is about one foot shorter, more closely jointed, and that it will mature for market ten to fourteen days earlier.

Pkt 15c, 1b 25c, 10 1bs \$2.35

FOR THE CORN EAR WORM
Dust "Corona Dry" on new silk as soon as it appears

REMEMBER

The rich flavor and sweetness of corn disappears quickly after gathering, and to be at its best stage must be used at once gathering,



### EGG PLANT

Should be started in a hotbed and transplanted when the weather is settled and the ground thoroughly warm. They will thrive with the same treatment as that given the tomato.

### BLACK BEAUTY

An extra early, quick-growing, vigorous variety, handsome and very uniform. Color, deep blackish purple. Splendid market sort.

Pkt 5c, oz 50c, 1/4 lb \$1.85

### NEW YORK IMPORTED, LARGE PURPLE

The leading market variety. Large, round, dark, excellent and the most productive. Pkt 5c, oz 50c, 1/4 lb \$1.85



Black Beauty

### GARLIC

CULTURE—Garlic is a profitable crop if your soil is right and proper methods of culture are employed. The sets are planted in the same manner as "Multiplier Onions," dividing the little clump, planting each bulblet thick end down, being careful not to bruise them as they will rot if injured. October is the planting month in Western Oregon.

A medium loam soil containing a little sand and well drained is best and commercial fertilizer should be used. Deep and thorough preparation of the soil is necessary.

Plant in rows 14 inches apart—sets 4 inches apart in the row. It requires 175 to 200 lbs. to plant an acre. When approaching maturity, the tops die down and are not removed but used to braid the Garlic together for hanging up and convenience in handling. An acre should produce from two to four tons.

Write for Prices.

### **ENDIVE**

This is a hardy vegetable, cultivated principally for a Winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

# BROAD LEAVED BATAYIAN (Escarolle)

Has broad, thick leaves, which form a large loose head.

Pkt 5c, oz 15c, ¼ 1b 45c

### WHITE CURLED

A beautiful variety, with curled, mossy leaves, for early use. Pkt 5c, oz 15c, 1/4 lb 45c

### GREEN CURLED

Standard sort for Fall and Winter.

Pkt 5c, oz 15c, 1/4 lb 45c

### HORSE RADISH ROOTS

For prices and description, see Plant Department

### KOHL RABI

Hardy and of easy culture. Grown from plants the same as cabbage. The Kohl Rabi is a vegetable intermediate between the cabbage and turnip and combines the flavor of both. The edible part is a turnip-shaped bulb formed by the swelling of the stem. Kohl Rabi is far superior to cabbage or turnips in the delicacy of its flavor and is a splendid addition to every garden. It should be eaten before growth ceases.

### EARLY WHITE VIENNA

Very early; bulb white; best table variety. Pkt 5c, oz 25c, 1/4 lb 75c

### EARLY PURPLE VIENNA

Same as above except in color, which is purple.

Pkt 5c, oz 25c, 1/4 lb 75c



# "CORONA DRY" THE UNIVERSAL FOR GARDENS

A safe, inexpensive, easily applied and efficient remedy for chewing garden pests—for use on fruit trees, berry bushes and plants that will insure perfect fruit and clean vegetables. "GARDEN PESTS AND THEIR CONTROL" tells how to use "Corona Dry" profitably in your garden. Free copy on request.

### HERB SEEDS-Sweet, Pot and Medicinal

Every garden should contain a collection of Herbs for flavoring and medicinal purposes. are almost a household necessity; are easily grown, and many of them are very ornamental.

CULTURE—Herbs in general delight in rich, mellow soil. Those marked with an (\*) are perennial, and when once obtained in the garden may, with a little attention, be preserved for years. Sow the seeds early in the Spring in shallow drills, one foot apart. We offer some of the most useful and popular. They should be cut on a dry day, just before they come into full bloom, and tied in bunches and hung up or spread thinly on a floor where they can dry quickly. When dry and crisp, rub fine and bottle.

### All the following Herbs, 10c per Packet.

- Anise—Seeds have useful medicinal properties; also used for flavoring.
- \*Balm—Used for culinary purposes and for making Balm Tea.
- Basil—Used for seasoning soups, having a decided flavor of cloves.
- Borage—Excellent for bees, flowers are also in request for garnishing.
- \*Chive—Has mild onion flavor; grows in grasslike clumps; much used for flavoring.
- Coriander—Seeds used in confections; leaves for soups and salads. Very aromatic.
- Caraway—For flavoring, the seeds being used extensively by bakers and confectioners.
- \*Catnip—(Cat Mint).
- Dill-The flower heads and seed are used in soups, stews and pickles; leaves have same flavor and can be used in like manner.
- \*Fennel—For garnishing and fish sauce.
- Fenugreek—For flavoring.
- Hyssop—Used medicinally.
- \*Horehound—Used medicinally as a cure for colds.

- \*Lavender—By distillation produces the wellknown Lavender water, the flowers for perfuming wardrobes, etc.
- Marjoram—The sweet aromatic leaves in either a green or dry state are used for flavoring.
- \*Pennyroyal—Used medicinally.
- \*Peppermint—For flavoring.
- \*Rosemary—Infusions of the leaves are used in medicinal beverages. Produces an aroma-
- \*Rue—Leaves are used in medicine, also for roup in poultry.
- \*Sage—The leaves and tender tops are used in stuffings and sauce; also in the beverage known as Sage Tea.

  - Savory—Summer. Used for flavoring.
    Savory—Winter.

  - Thyme—Broadleaved, used in soup, stuffing and sauce.
- \*Wormwood—Taken as a tonic in the form
  - Tansy—Used medicinally, as tea and bitters.

### Herb Seeds for Flavoring

Anise—Anise seed for flavoring. 1/4 lb 15c, lb 50c

Poppy—Seed used for flavoring. 1/4 lb 25c, lb 90c

Mustard—For flavoring and pickling.

Lb 30c, postpaid 40c; 100 lbs market price

Celery—For flavoring. Oz 10c, 1/4 lb 20c, lb 65c

Caraway—We keep constantly on hand a large stock of well preserved seed for the use of Druggists, Bakers and Confectioners.

Oz 10, 1/4 lb 30c, lb 95c Dill—Used to flavor soups, stews and pickles. Leaves possess similar qualities, and can be used in same manner as seeds. Market Price

### Foreign Names of Herbs

A Stands for Annuals or those generally used for such. B for Biennials. P for Perennials. **ENGLISH** FRENCH **GERMAN ITALIAN** Ā Anis Anacio Balm Melisse-Citronelle Citronen-Melisse Melissa A A A Basilice Basil Basilic-grand Basilikum Basil Borage Caraway Catnip Coriander Dill Bourrache Boretsch Boragine Cumin des pres Feld-kummel Carvi Cataire Cataria Katzenmunze A A-B P A P P Corian re Koriander Dill Coriandorio Aneth Fenouil Aneto Finocchio Fennel, Sweet Fenugreek Fenchel Bockshornsamen Fenugrec Foenungrasciene Marrubio Horehound Marrube Blanc Andorn Kraut Hysoppe Isop Hyssop Issopo Lavanda Lavender PA-B-P PPAAPAPAPPP Lavende Lavendel Marjoram Sweet Mint, Common Maggiorana Menta Majoran Marjolaine Menthe des Jardins Munze Rosemary Romarin Rosmarin Rosmarino Rue Sage Saffron Sorrel Rue Sauge Ruda Salvia Zafferano Raute Salbei Safran Safran Oseille Acetosa Sauerampfer Savory, Summer Sarriette Bohnenkraut Santoregia Tansy Thyme Tanaisie Thym Atanasia Timo Gemeiner Rainforn Thimian Wormwood Wermuth Absinthe Assenzio



# KALE

EMERALD ISLE—Finest in the World

This is really the handsomest Kale that has ever come under our notice; and is entirely distinct from other strains, very hardy, of medium height, and very vigorous, throwing out new shoots as fast as the leaves are used, and will furnish excellent greens all winter. The closely curled, handsome leaves are most attractive and of fine flavor. Fine exhibition plant. Oregon grown seed.

Pkt 10c, oz 25c, 1/4 lb 75c

### TALL GREEN CURLED SCOTCH

Grows about two feet high; leaves dark green, curled and wrinkled; very hardy and is improved by a slight frost.

Pkt 5c, oz 20c, 1/4 lb 70c

### DWARF GREEN CURLED

Leaves beautifully curled and bright Pkt 5c, oz 20c, 1/4 lb 70c green.

For KOW-KALE See Page 42

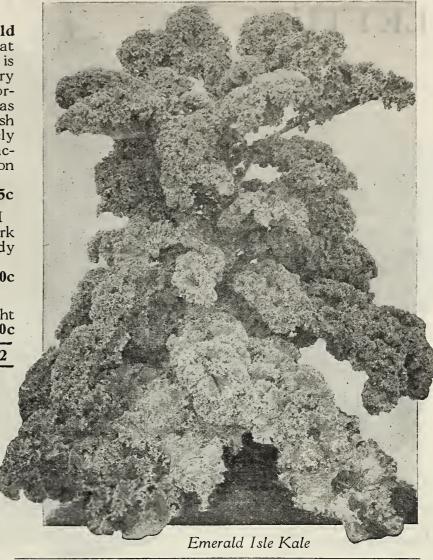
### LEEK

The Leek belongs to the Onion family. Prized for soups. Cultivate same as Onions, but should be hilled up about the neck to blanch it.

LARGE ROUEN or American Flag

A large, favorite American sort. Pkt 5c, oz 25c, 1/4 lb 85c





### MUSHROOM SPAWN

With intelligent care and good spawn, Mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar, under the benches of a greenhouse, or in sheds, where the temperature can be kept from 50° to 60° through the Winter. Our free pamphlet gives general instruction.

### NEW AMERICAN SPORE CULTURES

This Spawn is produced from the original spores by the new French process—exclusively controlled by the American Spawn Co., and is the only method by which select varieties can be perpetuated and improved. Bricks weigh about 20 ounces and will plant 10 square feet.

Price per brick 30c, postpaid 40c, by express not prepaid 5 bricks \$1.25.

MUSHROOMS: How to Grow Them. By Falconer. 162 pages. Postpaid.... \$1.60 MUSHROOM CULTURE and Pure Culture Spawn. 32 pages. Postpaid....

### MUSTARD

The varieties we offer make the finest of greens when used alone or if combined with cress furnishes a delicious salad. Sow any time in the Spring, in rows, and thin out as necessary.

FORDHOOK CURLED—Beautiful dark green, finely curled plume-like leaves that are of distinctive flavor; superior to spinach as greens and is fine for salads. "Fordhook Curled" is vigorous and productive.

Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

WHITE ENGLISH—Leaves mild, tender when young; seeds yellow. Pkt 5c, oz. 10c SOUTHERN GIANT CURLED-We offer a fine strain of the true curled leaf.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.10

CHINESE MUSTARD—Less pungent than other varieties. Chinese Mustard is most delicious, thriving at the same season and under conditions that are favorable to spinach.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.10





**CULTURE**—Lettuce is so extensively grown that cultural directions seem unnecessary, but we offer a few simple suggestions that may save a later disappointment, as any failure is generally blamed to the seed. This should not be, as Lettuce, like many other vegetables, requires very rich soil, plenty of water, a cool growing season and intense culture to produce the best results. If the earliest varieties are planted out in the Spring, and the weather turns dry and hot, they will run up to seed without heading. The same seed sown in the Fall or with cooler growing weather would develop perfectly. At a temperature of 40 degrees or lower Lettuce will not thrive. At 65 degrees and upward it has a tendency to run up and not head properly. For outside planting sow the seed in shallow drills from one to two ounces to the 100 yards. An ounce will produce 3,000 plants. Four pounds should plant an acre. Lettuce matures in forty to sixty days from time of planting.

S. S. CO.'S CRISPETTE

Our "New Crispette" is a beautiful lettuce, the quality of which is simply perfect. The large, curly leaves, which cover the outside of the solid heads, are of a bright, light green. The unusual solidity of the heads is insured by the large, white main ribs of the leaves, each of which curving strongly toward the center, makes it impossible for the leaves to open outward and expose the center, which will always be found crisp, tender, sweet and melting. It matters not whether grown to head in the early Spring or the hottest days of Summer, the leaves are always crisp and tender.

Pkt 10c, oz 25c, ½ 1b 75c, 1b \$2.50

### MAY KING

A large growing, smooth leaved, richly flavored sort. Plant, light green, with round leaves, which form into a very solid, compact, round head; stands a long time without running to seed. Inner leaves blanch to a rich golden yellow. Exceedingly rich, tender and buttery. Fine for open ground or forcing. For succession plant in spring, then in August and again in September. Pkt 5c, oz 15c, ½ 1b 40c, 1b \$1.25

### SIMPSON'S EARLY CURLED

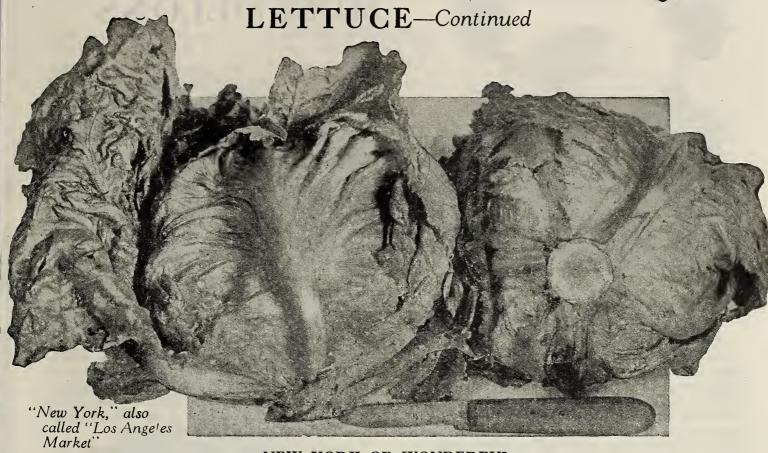
A leading market variety used for very early planting and forcing. Forms a dense mass of finely curled and wrinkled leaves that are excellent and tender, and do not wilt readily.

Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

#### BLACK SEEDED SIMPSON

Forms a close, compact mass of curly leaves of a yellowish green. Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

DIAMOND FERTILIZERS WILL FORCE LETTUCE EARLY—Make Big Solid Heads—Tell us whether you are growing under glass or outside and we can tell you what fertilizer is best, and how to use it profitably—Fertilizer Book Free—Ask for it



NEW YORK OR WONDERFUL The Best Head Lettuce for Market Growers

This is the mammoth head lettuce so popular in California, where it is known as "Los Angeles Market," from whence it is shipped to the Northern markets, arriving in splendid condition. The immense heads are solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. "New York" is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head.

Pkt 10c, oz 50c

### HANSON Improved Hard Heading Stock

One of the very best. Heads green outside and white inside; grow to a remarkable size, very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun well.

Pkt 5c, oz 15c, ¼ lb 40c, lb \$1.25

### **GRAND RAPIDS** For Early Forcing

As a Lettuce for green-house forcing, this variety undoubtedly stands at the head of the list. Of quick growth, and stands for some days after being fit to cut. The plant is fit to cut. The plant is upright, and forms a loose head or cluster of large, light yellowish green leaves, slightly crimped and blistered, rather thin, good flavor, crisp and tender. It will stand shipping better than most curled sorts.

Pkt 5c, oz 15c, 1/4 lb 40c, 1b \$1.25

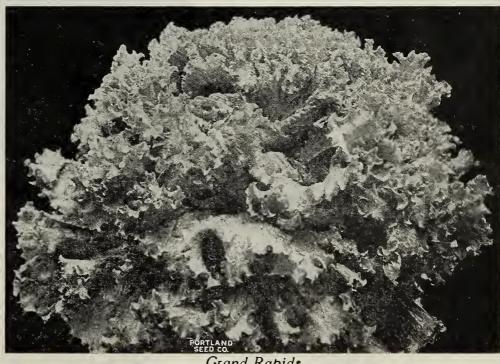
WHITE PARIS COS

Oval heads of upright growth; tender and crisp. Pkt 5c, oz 15c, 1/4 lb 45c, lb. \$1.40

### **BROWN DUTCH**

Forms a large, solid head, sweet, tender and of good flavor. Outer leaves are tinged with brown. It is very hardy.

Pkt 5c, oz 15c



Grand Rapids

Garden Pests AND THEIR CONTROL." A useful little booklet which tells how to use Corona Arsenate, and Corona Sulphur to keep vegetables free from insect pests





### BURRELL GEM The Perfect Melon for Market or **Home Gardens**

"Burrell's Gem" has a tough, thin rind, well arched ribs, covered with a closely interlaced gray netting; shape elongated, being about 41/2 inches in diameter by 6 inches long, flesh of a reddish orange, very thick, fine grained and spicy, seed held firmly in a triangular cavity. This is the secret of a good shipping melon. If the seeds shake loose easily a melon will quickly decay.

Pkt 5c, oz 15c, ¼ lb 45c, lb \$1.40

OSAGE, OR MILLER'S CREAM One of the finest flavored melons in cultivation, and highly recommended. The flesh is of a rich salmon color, very sweet and melting in quality. Pkt 5c, oz 15c, ¼ lb 40c, lb \$1.25

# MUSKMELONS

CULTURE—Plant in hills four to six feet apart each way, after danger of frost is past and ground is warm; enrich well with well-rotted manure and plant the seeds just under the surface, not too deep. One ounce to fifty hills; two or three pounds per acre.

Melons thrive best on warm, light soils, but good crops are obtained on heavy ground if it is rich and well drained; in cultivating, hill up by drawing the soil toward the plant. Use Bug Death, lime, slug shot or land plaster for de-

stroying insects.

BURRELL'S RUSTLESS ROCKY FORD CANTALOUPE

This new melon, the highest development of 'Rocky Ford' type, has light green flesh which is very deep, rich and delicious, the quality being unsurpassed. It is solidly netted, thrifty, vigorous, rust resistant and a continuous bearer until frost.

Pkt 5c, oz 15c, ¼ lb 45c, lb \$1.40 ROCKY FORD OR NETTED GEM

The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and highly flavored. The fruit is wonderfully uniform in shape and quality. A favorite with market gardeners everywhere.

Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

SMALL GREEN NUTMEG

A variety ripening early. Flesh, green, fine and sweet. Superior for the early market, or family garden, and a favorite for hotels and restaurants. Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

LARGE YELLOW CANTALOUPE

Early and productive; flesh salmon color, rich, Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

### WATERMELONS

CULTURE—Watermelons thrive best on light, well-drained soils, but give good results on any good rich garden soil that is properly drained and cultivated. Plant after the weather is settled and ground warm. Hills should be eight feet apart each way and with well rotted manure thoroughly worked into each hill. One ounce of seed will plant thirty hills, two to three pounds per acre. plants per hill.

TOM WATSON

This excellent new melon is of elongated form, averaging 18 to 24 inches in length, 10 to 12 inches in diameter, has a thin, dark green rind and deep red flesh; crisp and sugary, with a lusciousness and distinctive flavor that makes it one of the finest melons ever produced; is hardy, early and stands handling and long shipment. We consider it a valuable market or home variety.

> Pkt 5c, oz 15c, 1/4 lb 30c, lb \$1.00 ICE CREAM, OR PEERLESS

A grand favorite and standard variety. Superior in every respect. Has beautiful crimson core, which is always fine grained; cannot be

surpassed in flavor; very prolific.

Pkt 5c, oz 15c, 1/4 lb 30c, lb \$1.00

HALBERT HONEY

Rich, dark glossy green; thin rind and bright crimson flesh of delicious flavor. Vigorous and productive; ripens perfectly in cool sections.

Pkt 5c, oz 15c, 1/4 lb 30c, lb \$1.00

CITRON

Grown for preserving and pickling.

Pkt 5c, oz 15c, 1/4 lb 30c, lb \$1.00



KLECKLEY'S SWEET, or MONTE CRISTO

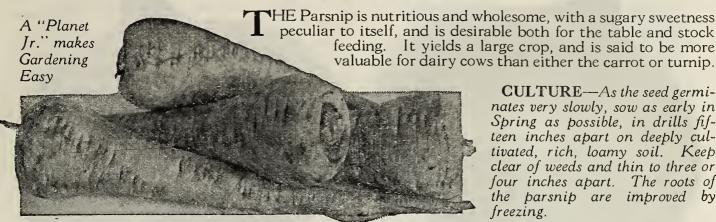
A splendid sort for home use or near markets. Vine vigorous and productive; fruit of medium size; oval; color dark, mottled green in two shades, forming indistinct stripes. Flesh a beautiful bright rich red; exceedingly sweet and tender. Pkt 5c, oz 15c, ¼ 1b 30c, 1b \$1.00

SWEET HEART

Good shipper. Vine vigorous and productive, ripening its fruit early. Fruit large, oval, very heavy, uniformly mottled dark and very light green; rind thin, but firm; flesh bright red, firm solid, but very tender, melting and sweet. Fruit retains its good quality for a long time after Pkt 5c, oz 15c, 1/4 lb 30c, lb \$1.00 ripening.



# **PARSNIPS**



CULTURE—As the seed germinates very slowly, sow as early in Spring as possible, in drills fifteen inches apart on deeply cultivated, rich, loamy soil. Keep clear of weeds and thin to three or four inches apart. The roots of the parsnip are improved by freezing.

### HOLLOW CROWN OR LONG WHITE

Root very long, white, smooth, tender, sugary, and of most excellent flavor. Very hardy; will keep through the Winter without protection.

Pkt 5 oz 15c, ½ lb 40c, lb \$1.25

### EARLY HALF LONG

Ready in 90 days. Medium sized, easily dug, has a fine, rich flavor - good for home gardens.

Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

### **PARSLEY**



Very useful for flavoring soups, meats and for garnishing. The green leaves are used for flavoring or they may be dried crisp, rubbed to a powder and kept in bottles until needed.

Pkt 5c, oz 10c, 1/4 lb 30c, lb \$1.00

#### EXTRA DOUBLE-CURLED

A fine, free growing, but not large variety. The plants bear a great number of leaves, which are so abundant and so finely curled that they resemble a bunch of moss

Pkt 5c, oz 10c, 1/4 lb 30c, lb \$1.00

### TURNIP-ROOTED OR HAMBURG

The root, which resembles a small turnip, is the edible portion of this variety. Extensively grown and used for flavoring soups, etc.

Pkt 5c, oz 10c, 1/4 lb 30c, lb \$1.00

### PEPPER

Sow the seeds early in hotbeds; or later, when the weather becomes warm, in open beds. When two or three inches high, transplant to a warm, mellow soil, in rows eighteen inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield.

**NEW PERFECTION PEPPER**—Perfection is well named, as these perfect peppers are unequaled for quality and sweetness, are large, smooth, with flesh 3 times as thick as in other varieties, and the skin can be slipped off by heating or boiling a little, or you can pare them like you would an apple. Growth is vigorous. Yield is heavy and continuous, bearing until frost.



Pkt 10c, oz 70c

RUBY KING-Very large, sweet and mild; bright scarlet. Pkt 5c, oz 70c

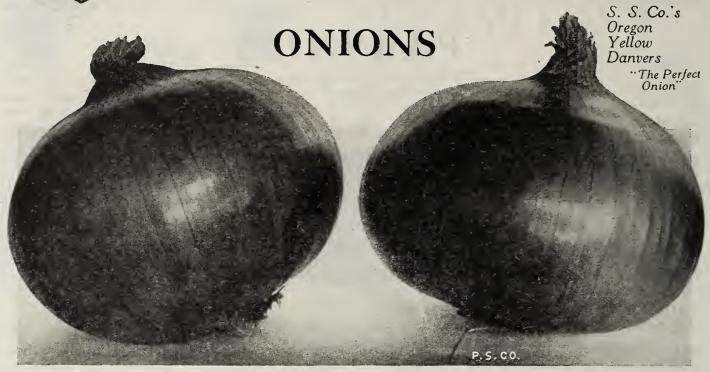
LARGE BELL, or BULL NOSE-Large, mild, thick fleshed variety. One of the best for stuffed pickles. Pkt 5c, oz 70c

CAYENNE—Pods long; bright red; very pungent and used very largely with pickles when Pkt 5c, oz 70c

CHILI-Pods small and pointed; brilliant scarlet; very pungent when ripe.

Pkt 5c, oz 70c





WE are large growers of Onion Seeds and Sets, and for years have been specializing on varieties that attain their greatest perfection in the Northwest and believe in our "OREGON YELLOW DANVERS" we have the finest type of Danver Onion ever offered, and recommend it to all commercial growers.

**CULTURE**—For the best results in Onion growing, the soil should be deep and rich; bottom land of rather loose texture being preferred—(beaverdam soil is best).

Sow 2½ or 3 lbs. of seed per acre, as early in the season as the ground can be put into proper condition, using some good fertilizer such as our special Onion Fertilizer, or manure supplemented with Bone Meal, Muriate of Potash, and in some cases Nitrate of Soda, the latter often being used after the plants are up, while the other fertilizers are worked into the soil before the seed is sown. Hardwood ashes may take the place of the Muriate of Potash.

Thorough clean cultivation and thinning during the growing season is necessary.

In the Fall the tops of the Onions will naturally fall to the ground and shrivel up and the roots let go their grip on the soil, then the Onions should be lifted and allowed to dry off for a day or two before storing away. If the weather remains too wet to dry off in the fields, the Onions may be put under open sheds for a while where there is a good circulation of air.

In case the tops do not die off naturally, they may be broken down and so cause the bulbs to ripen quicker, but such Onions will not make good keeping bulbs, and should be disposed of as soon as possible.

To be sure of a good crop, sow none but the best of seed—it may cost a little more than a cheaper grade of seed, but it is worth more than the difference in the price.

### Spokane Seed Co.'s Oregon Yellow Danvers

This type was developed in Oregon and is the standard market variety in this section.

The bulbs are uniformly large, of a half globe form with small neck and have the thin, brownish-yellow skin of the Danver types and the firm, fine grained flesh is very white and mild.

Oregon Yellow Danvers produce the largest crops, ripen up hard and early, are the best keepers and bring the highest prices in the Coast markets; and as a table or market onion has no rival.

The seed we offer is produced under the most approved methods of culture and no grower can afford to plant inferior seed when we can supply **Oregon Grown Yellow Danvers**.

Pkt 10c, oz 25c, 1/4 lb 80c, lb \$2.75

#### YELLOW GLOBE DANVERS

This is the type most widely known and used as a main crop variety. A very handsome, round or globe-shaped variety of large size, with thin, yellowish skin, white flesh, fine grained, mild, very firm, and the best of keepers. Ripens early.

Pkt 5c, oz 20c, 1/4 lb 75, lb \$2.50

Pkt 5c, oz 20c

### EXTRA EARLY RED FLAT

A medium-sized flat variety; comes into use nearly two weeks earlier than the large red Weathersfield.

#### YELLOW FLAT DANVERS

The Yellow Flat Danvers has all the good points of the Globe but is a true flat type, a good cropper, matures quickly and is a good keeper. Is fine grained, mild and white.

### Pkt 5c, oz 20c, 1/4 1b 60c, 1b \$2.00 PRIZETAKER

Of fine flavor, handsome shape and enormous size. A perfect globe shape, with a bright straw-colored skin. A good variety for transplanting, which is sometimes necessary to secure a crop, especially on upland.

Pkt 5c, oz 20c, ¼ 1b 75c, 1b \$2.50



### **ONIONS**—Continued

### WHITE "BUNCHING" ONION

This variety is expecially useful to market gardeners for producing an attractive "green onion." The young stalks are crisp and mild, attaining a good size before the bulb forms.

Pkt 10c, oz 30c, 1/4 lb 90c, lb \$3.00

### LARGE RED WETHERSFIELD

A standard variety; one of the most productive kinds, even in poor soil. Its good keeping qualities render it one of the best for shipping.

Pkt 5c, oz 20c, 1/4 lb 75c, lb \$2.50

### **AUSTRALIAN BROWN**

This onion resembles the Oregon "Yellow Danvers" in general appearance, but has a clear amber-brown skin that attracts buyers. It matures early, ripens uniformly, and will keep in good condition longer than any other onion. For late sowing and when necessary to replant, Australian Brown heads the list.

Pkt 5c, oz 20c, 1/4 lb 60c, lb \$2.00

### WHITE PORTUGAL OR SILVER SKIN

Skin and flesh pure white; mild flavor and flat shape; grown largely for sets.

Pkt 5c, oz 30c, 1/4 lb 90c, lb \$3.00

### WHITE BARLETTA

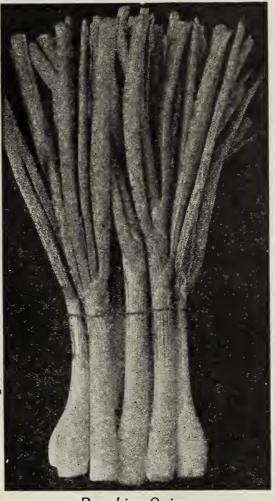
A small, pure white, mild onion; fine for pickles. Pkt 5c, oz 50c, 1/4 lb \$1.50, lb \$5.00

### SOUTHPORT WHITE GLOBE

Large, silvery white, good keeper. A general favorite. Pkt 5c, oz 30c, 1/4 lb 90c, lb \$3.00

### -Planet Jr. Drills and Cultivators-

A Planet Jr. Seeder will soon save enough seed to pay for itself; gives a better stand and makes cultivation easy. Saves time and money.



Bunching Onion

### **QUEEN**

If sown thickly, produces small, very firm bulbs, the best of all for pickling; if given more room, matures an excellent onion, that will keep all Winter. Pkt 5c, oz 50c, 1/4 lb \$1.50, lb \$5.00

### Onion Sets—Pound Prices Postpaid

### **BOTTOM ONION SETS**

Small onions grown from seed that has been sown too thickly to attain a large size. The small onions (about ½ inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown directly from the seed. Per 1b 30c

For Garlic see page 19

TOP SETS

Produced in clusters.

Per 1b 30c

### **SHALLOTS**

Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium-sized bulbs. Light brown skin; mild, white flesh.

Per 1b 30c

### **BOTTOM MULTIPLIER**

Potato Onion Sets.

Per 1b 30c

### DIAMOND ONION FERTILIZER 1000 Pounds to the Acre

Our Free Book "FERTILIZERS" tells things you should know about fertilizers—gives analyses, values and crop requirements—tells what fertilizers are and how to use them

### OKRA OR GUMBO

#### IMPROVED DWARF GREEN

Very early, with long, green, slender pods.

Pkt 5c-oz 10c-1/41b 25c-1b 75c

#### WHITE VELVET

The large pods are smooth or very slightly ribbed, remain tender a long time.

Pkt 5c-oz 10c-1/4 lb 25c-lb 75c

# GARDEN PEAS

"Diamond Quality." Selected Hand Picked For single lbs. by mail add 10c postage—Larger lots at parcel post rates. Pkts are postpaid



spared no effort to select and improve the best strains of the most profitable and satisfactory varieties. These selected strains, grown under our direct supervision for many years, will give you the biggest yield and the handsomest, sweetest, best flavored Peas for early market or home garden. The varieties offered have proved by growing tests to be the best of their kind and class.

### PREMIUM GEM

See Front Cover

Our select strain of this splendid variety is one of the earliest and best of the dwarf garden Peas. The vigorous, luxuriant vines average about 15 inches in height and are heavily loaded with well filled pods of rich, fine flavored sugary peas. Continues in bearing for a longer period than most varieties pods of rich, fine flavored sugary peas. Continues in Searing 15. a sugary peas in this class. A splendid home garden pea for successive planting and for canning.

Pkt 15c, 1b 35c, 10 lbs \$3.00

### LAXTONIAN

A new, early, dwarf, robust, large podded pea of superior excellence; growth averaging 16 inches. The large pods are well filled, holding 8 to 10 peas. "Laxtonian" is so highly recommended that you should give it a trial.

Pkt 15c, 1b 40c, 10 lbs \$3.75

### ALASKA OR EARLIEST OF ALL

A smooth, blue pea, of even, vigorous, growth and extra early maturity. Vines two to three feet high, unbranched, bearing four to seven long pods, which are filled with medium-sized, bright green peas of excellent flavor. A great favorite with our market gardeners for Fall or early Spring planting. Pkt 15c, lb 25c, 10 lbs \$2.25

### **GRADUS**

This extra early, wrinkled pea bears pods of large size and combines quality with earliness. It is very hardy; can be planted fully as early as the smooth peas; growth, vigorous and healthy; vines 2½ feet in height; very prolific. The quality and flavor are delicious and the peas remain tender and sweet for a long time.

Pkt 15c, lb 40c, 10 lbs \$3.50

AMERICAN WONDER

One of the most popular and best of the early wrinkled sorts. A great favorite for family use. Has stout, branching vines, covered with wellfilled pods containing seven or eight large, exceedingly sweet, tender and well-flavored peas. Height 10 to 12 in. Pkt 15c, lb 35c, 10 lbs \$3.25

Both "Corona Dry" and Corona Dusting Sulphur are safe to use. small amount of poison that clings to the fruit or plant is easily washed off.



### PEAS—Continued

### Late or Main Crop Varieties

### TELEPHONE—Tall

See Front Cover A Great Favorite with our Market Gardeners

Our Washington grown selection of this popular favorite and standard market variety is immensely productive, the extra large pods being filled with peas of the finest quality, the luscious sugary flavor not being excelled by any other variety. A strong, rapid grower, averaging 4 to 5 feet.

### Pkt 15c, lb 35c, 10 lbs \$3.00

### IMPROVED STRATAGEM

One of the best of the large podded peas; the pods are of immense size filled with large, dark green, wrinkled peas of the finest quality; vine of medium height, but very stocky, with very broad, light green leaves, and bearing an abundance of large, handsome pods.

Pkt 15c, 1b 30c, 10 1bs \$2.75

### YORKSHIRE HERO

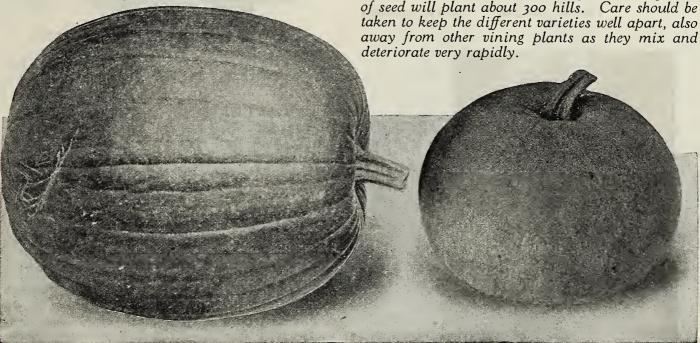
One of the largest, sweet, wrinkled kinds; vines strong and spreading; pods of good size and well filled; much in use, and has enjoyed a long popularity; medium late; bears a long time; height, 2 ½ feet.

Pkt 15c, 1b 30c, 10 1bs \$2.75

# Mulford Cultures FOR Garden Peas increases the yield, enriches the soil. Garden size 50c, acre \$1.50, 5 acre \$5.00

### PUMPKIN

on the culture and fertility of the soil. Plant early in May, in hills six to eight feet apart. One pound



Sweet or Sugar and Winter Luxury are good Pie Pumpkin

### SWEET OR SUGAR

A handsome and productive small pumpkin; skin, orange; flesh, deep yellow, fine grained, very sweet. This is the famous "New England Pie Pumpkin." Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

### MAMMOTH TOURS

A productive French variety; grows to an enormous size.

Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

# LARGE YELLOW OR CONNECTICUT FIELD

Large, round; deep, glossy yellow. Vines vigorous and very productive; good keeper. Grown extensively for stock feeding.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.00

### WINTER LUXURY

The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color, golden-russet, finely netted; flesh, deep golden, sweet, tender and very thick; none better.

Pkt 5c, oz 15c, ¼ 1b 40c, 1b \$1.25

# GIANT OF ALL "King of Mammoths"

This colossal Pumpkin is almost a globe in shape. The skin is of a beautiful, rich golden yellow, flesh firm, fine grained and deep yellow, sweet flavored, very thick and of excellent quality for so mammoth a variety. These Pumpkins attain an enormous size and will carry away prizes at your county fairs.

Pkt 5c, oz 20c, 1/4 lb 55c, lb \$1.75

RADISHES

**CULTURE**—To secure Radishes with crisp, tender flesh, grow them quickly in rich, loose soil, and gather before reaching full size. Our Radish Seed is strictly of the finest grade, being grown from carefully selected roots. Frequent plantings should be made for succession, so that a supply of fresh, tender Radishes in the finest condition may be had at all times.

#### EARLY CRIMSON GIANT

The Largest Early Scarlet Turnip-Shaped Radish

A new, early Radish, double the size of any of the turnip-shaped type, but, notwithstanding its immense size, does not get hollow and pithy, The flesh is a sparkling white, solid, crisp, juicy and of the mildest flavor. The shape of bulb varies from round to almost oval, but the bright, deep crimson color of skin remains quite constant. Excellent for both forcing and open Pkt 5c, oz 15c, 1/4 lb 45c, lb \$1.50

### EARLY SCARLET TURNIP

A small, round, red turnip-shaped Radish, with small top and of very quick growth; very early; rich color and crisp, tender flesh.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15



EARLY SCARLET TURNIP—White Tipped

A beautiful variety; deep scarlet with white tip. Very early. Has a small top, and may be planted closely. Flesh crisp, tender and sweet. Cannot fail to give satisfaction as a forcing Radish.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15

### EARLY LONG SCARLET, SHORT TOP

This bright scarlet, small topped sort is uniformly straight, smooth, brittle and crisp, and is an excellent sort for private gardens or market use.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15

### LONG BRIGHTEST SCARLET, WHITE TIPPED

This is the brightest and handsomest colored Scarlet Radish known. The lower third of the root is snow white; very attractive. Extra early and flesh very tender. Valuable for forcing or open ground.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15

### WHITE ICICLE

This superb Radish is the finest and longest of the very early, pure white varieties. Planted in the Spring, is ready for use in twenty to twenty-five days; their long, slender form and pure, paper-white skin are most attractive when bunched for market. This Radish is not only crisp and tender when young but also retains these qualities until the roots attain large size; is excellently adapted for forcing purposes or successive sowing in the open ground and gives a continuous supply of tender, crisp Radishes for the table or market throughout the season. Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15

EARLY SNOWBALL

Grand improvement on the White Box or White Turnip Radish, so popular for several years. Handsome in shape, very early, and has but few leaves, is of a clear white color, solid, juicy, crisp, tender and unsurpassed in flavor. A good sort for forcing. Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15





### RADISHES—Continued

### FRENCH BREAKFAST OR HALF LONG

Medium size, quick growth, crisp and tender; lower end and taproot white.

Pkt 5c, oz 15c, ¼ lb 35c, lb \$1.15

### IMPROVED CHARTIER

Roots long, tapering, and attaining a very large size. Of rapid growth; remains crisp and tender until fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15

### LADY FINGER, OR WHITE VIENNA

Of rapid growth and beautiful shape. Skin and flesh snow-white; very juicy, firm, crisp and tender; the finest of Long White Radishes.

Pkt 5c, oz 15c, ¼ 1b 35c, 1b \$1.15

### WHITE STRASBURG

One of the best large Summer sorts. It covers a long season, as it is good when quite small. The roots are long, very white, crisp and tender. Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15

### Winter Radishes

### CHINA ROSE WINTER

One of the best Fall and Winter varieties; a favorite with market gardeners, bright rose color; flesh white, firm and of superior quality.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15

### **BLACK SPANISH LONG**

Standard Winter sort; has good flavor and keeps well. Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15 **BLACK SPANISH ROUND** 

Same as long, except shape.

Pkt 5c, oz 15c, 1/4 lb 35c, lb \$1.15

### **SPINACH**

This is an important gardener's crop, of easy culture. For Spring and Summer use, sow either broadcast or in drills one foot apart and one inch deep, as early as the ground can be worked, and every two weeks for a succession.

### SAVOY LEAVED—BLOOMSDALE

Very early; of upright growth; leaves pointed. Plant in the Autumn for Spring use; grows quickly. Pkt 5c, oz 10c, 1/4 lb 25c, lb 75c

### **NEW ZEALAND**

A good summer variety, as when once established by early planting resists heat. Leaves soft, thick and fleshy. Differs in appearance from other varieties but is prepared in the same manner.

Pkt 10c, oz 20c, 1/4 lb 60, lb \$2.00

### IMPROVED THICK LEAVED

Variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color, and quality when cooked. Best for market gardeners.

Pkt 5c, oz 10c, 1/4 lb 25c, lb 75c

### PRICKLY WINTER

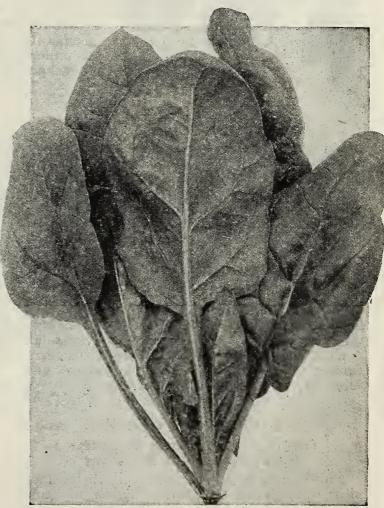
Hardiest variety; must be sown in the Fall; seed prickly; leaves long, pointed, thick and succulent. Pkt 5c, oz 10c, 1/4 lb 30c, 1b \$1.00

### LONG STANDING

An improved variety for general use; large, fleshy savoyed leaves remain in an edible condition over a long period, being very slow to go to seed. Pkt 5c, oz 10c, 1/4 lb 25c, 1b 75c

### VICTORIA

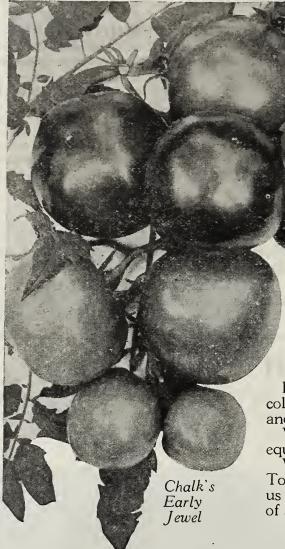
Leaves large, tender and good quality; good market sort. Pkt 5c, oz 10c, 1/4 lb 25c, lb 75c





Rhubarb Roots From October to June we can always supply one or two-year-old Rhubarb Roots. Customers wanting only a few dozen roots for home gardens will save much val\_ uable time by ordering roots instead of seeds.
For prices, see Plant Department.





# TOMATOES

THE newer types of hardy, prolific Tomatoes are better adapted to the cool Coast climate than the older sorts; and splendid crops are now being grown where heretofore it was thought Tomatoes would not thrive. A good plan is to try several varieties and find which is best suited to your special conditions.

CULTURE—Sow early in hotbeds, and as soon as they have four leaves transplant into shallow boxes. Harden off, and set out as soon as danger of frost is past. An ounce of seed will

produce 3,000 to 4,000 plants.

If blight appears use "Bordeaux" but it is better to use as a preventative before blight strikes the plant, and as a control measure for flea beetles, spraying the under side of the foliage.

### CHALK'S EARLY JEWEL

Large, bright red, smooth, round fruits, very deep and colored evenly up to the stem; very solid, almost seedless and of the finest flavor.

Vines are vigorous, not subject to blight, and yield fully

equal to or better than Earliana.

We recommend Chalk's Early Jewel as the very best early Tomato for either market or home gardens, as it has given us uniformly better satisfaction under the varying conditions of soil and climate in the Northwest.

Pkt 5c, oz 35c, 1/4 lb \$1.00

#### **NEW STONE**

Popular with canners, growers and market gardeners. Its solidity and carrying qualities are remarkable. Color a desirable red. In shape, perfectly smooth and thicker from stem to blossom end than most varieties, making it very hand-some and salable. Pkt 5c, oz 30c, ¼ lb 90c

### BONNY BEST

Bonny Best has given splendid results wherever tried and being early, hardy and very productive can be recommended for outside planting wherever tomatoes can be grown. It is also a good forcing variety. Fruit smooth, round, slightly flattened, solid and of a bright scarlet. Quality excellent. Pkt 5c, oz 35c, ½ 1b \$1.00



# SPARK'S EARLIANA One of The Earliest Tomatoes

Of large, uniform size and beautiful red color. Ripens thoroughly all over, the stem end coloring up perfectly. Almost seedless and very solid. A most vigorous grower and heavy bearer, continuing until frost. Succeeds everywhere, and especially recommended for this Coast.

Pkt 5c, oz 35c, 1/4 lb \$1.00

### LIVINGSTON GLOBE

### One of the Best Early Tomatoes Hardy and Blight Resistant

Fruits are of large, even size; very early; ripen clear through and are always smooth, firm and round; with solid meat and few seeds. Color is a beautiful glossy, rose-tinted purple; very productive. Livingston's Globe is of delicious table quality and will keep longer than any other tomato. Is also an excellent forcing variety.

Pkt 5c, oz 30c, ¼ 1b 90c



Use DIAMOND VEGETABLE FERTILIZER for TOMATOES—1,000 lbs. to the acre broadcasted and cultivated in gives big returns. Consult our free booklet "FERTILIZERS," mailed on request

Ground Cherry

Husk

Tomato



### TOMATOES—Continued

The very best forcing variety and a general favorite with greenhouse growers. Color is a beautiful scarlet; fruits are of good size, very smooth Pkt 10c, oz 45c and uniform.

**DWARF CHAMPION** 

Dwarf, upright growth; smooth, purple fruit. Pkt 5c, oz 35c, 1/4 lb \$1.00

### CARTER'S SUNRISE

A very early English variety of fine flavor and healthy, vigorous growth, with solid flesh and few seeds; very even, smooth and shapely. Color, bright, rich scarlet. Is also one of the best forcing varieties.

Pkt 5c, oz 35c, 1/4 lb \$1.00

### **GOLDEN QUEEN**

A first-class, large, smooth, pure yellow tomato. Pkt 5c, oz 35c, 1/4 lb \$1.00

# YELLOW PEAR, YELLOW PLUM AND YELLOW AND RED CHERRY

These small varieties are very satisfactory for preserving and are too well known to require description. All same price.

Pkt 5c, oz 50c, 1/4 lb \$1.65

**GROUND CHERRY OR HUSK TOMATO** 

Grows to great perfection under ordinary culture, yielding abundantly; very much prized for preserving; should be in every garden.

Pkt 10c, oz 45c, 1/4 lb \$1.40

LIVINGSTON'S CORELESS—Large globe shaped, bright red, strong grower and big crop-Pkt. 5c, oz 30c, 1/4 lb 90c

LIVINGSTON'S PERFECTION — Medium early, deep scarlet, firm and of excellent quality.

Pkt. 5c, oz 30c,  $\frac{1}{4}$  1b 90c

"Tomato Culture

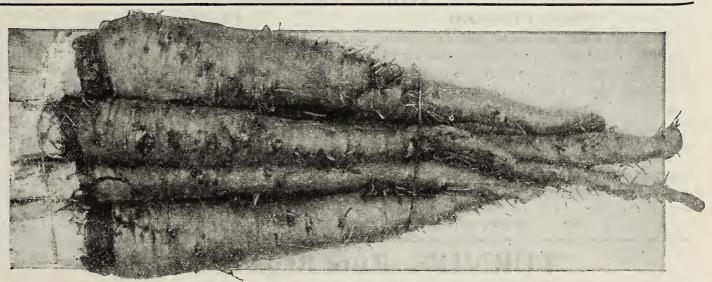
By Littooy 40c cents, postpaid

LIVINGSTON'S BEAUTY—Large; good quality; deep red in color. Pkt. 5c, oz 30c, 1/4 lb 90c

LIVINGSTON'S FAVORITE - Excellent for general crop; bears heavily.

Pkt. 5c, oz 30c, 1/4 lb 90c

Tomato Plants STANDARD VARIETIES FOR SEASONABLE DELIVERY - FINE HEALTHY TRANSPLANTED AND POT GROWN PLANTS-Safely Packed and Shipped to any point in the Northwest. See Plant Department



### SALSIFY or Vegetable Oyster

Salsify is a nutritious and wholesome vegetable, having the appearance of a small parsnip; in flavor closely resembling oysters, for which it is, in that respect, a good substitute. It is rapidly coming into more general use.

CULTURE—Sow early in Spring, in drills a foot apart, and when two or three inches high thin to three or four inches. Its general culture is the same as that recommended for carrots. The roots are perfectly hardy and may remain in the ground during Winter, or may be stored in dry earth or sand.

MAMMOTH SANDWICH ISLAND-The leading variety; produces a large crop of straight, Pkt 5c, oz 30c, ¼ 1b 85c, 1b \$2.75 smooth roots.

### TOBACCO

CULTURE—Sow the seed thinly in beds, as early as they can be well prepared. Cultivate thoroughly, transplanting when six inches high to rows four feet apart each way.

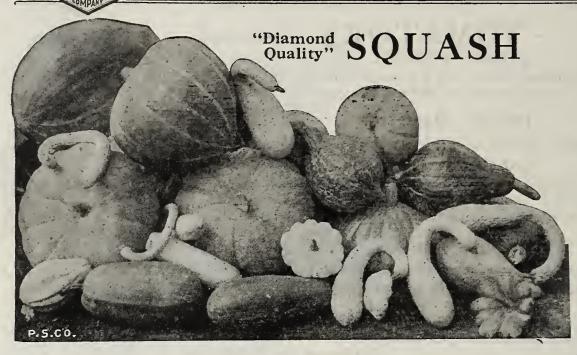
CONNECTICUT SEED LEAF

Hardy, and the best adapted to cool localities.

Pkt 10c, oz 40c

Of fine texture and delicate flavor.

Pkt 10c, oz 60c



CULTURE—The plants are very tender and sensitive to cold, and planting must be delayed until settled warm weather. The general principles of culture are the same as those given for cucumbers and melons, but squash is less particular as to soil. The Summer varieties should be planted four to six feet apart each way and the winter sorts eight to ten feet. Three plants are sufficient to a hill.

To protect from beetles, young plants should be screened, and growth hastened by the application of our Diamond Fertilizer. Dusting the young plants thoroughly with "Corona" Dusting Powder, including the stem where it enters the soil, will often save them.

### Summer Varieties

### MAMMOTH WHITE BUSH SCALLOP

The best Summer sort for the home garden or market; very productive and of good size.

Pkt 5c, oz 15c,  $\frac{1}{4}$  lb 50c, lb \$1.65

### MAMMOTH SUMMER CROOKNECK

Early, prolific, solid, curved neck; skin yellow, thin, hard and warty; flesh tender and of good quality. Earlier and larger than the ordinary Crookneck. Pkt 5c, oz 20c, 1/4 lb 60c, lb \$2.00

ENGLISH VEGETABLE MARROW

Oblong, dull yellow skin, very prolific and of finest table quality. Pkt 5c, oz 20c, 1/4 lb 60c, lb \$2.00

### Winter Varieties

### TRUE HUBBARD

The best seller and most popular variety on our list. Rind dark green, warty and very hard. Flesh light orange, very dry, sweet and rich flavored. Has no superior. Long keeper.

Pkt 5c, oz 20c, 1/4 lb 60c, lb \$2.00

#### MAMMOTH CHILI

The largest of all Squashes, growing to an enormous size, often weighing over 200 pounds, while its rich, fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding. Pkt 5c, oz 20c, 1/4 lb 60c, 1b \$2.00

#### GOLDEN HUBBARD

The same in size, shape and quality as the well known Hubbard Squash, except that it is a bright red or golden color, and somewhat earlier. Good Pkt 5c, oz 20c,  $\frac{1}{4}$  1b 60c, 1b \$2.00 keeper.

**BOSTON MARROW** 

Skin yellowish, very thin; flesh dry and fine grained; of unsurpassed flavor.

Pkt 5c, oz 15c, 1/4 lb 40c lb \$1.15

SIBLEY OR PIKE'S PEAK

Shell smooth, thin and of a pale green color; the flesh is thick, solid, deep orange color; very dry, fine grained with a delicate flavor.

Pkt 5c, oz 20c, 1/4 lb 60c, lb \$2.00

# TURNIPS-Ruta Baga or Swede

For feeding stock in Fall and Winter there is nothing superior to Turnips or Ruta Bagas, as they are much liked by all kinds of stock and serve to keep them in good condition. A profitable crop-

### DANISH PURPLE TOP Bangholm Pajbjerg

Danish Government first-class certificate for heaviest yield, 49 tons per acre. Elongated Globe type. Pkt 5c, oz 15c, 1/4 lb 45c, lb \$1.50

### MONARCH OR TANKARD

Very solid, fine grained, of fine flavor; grows well out of the ground and yields large crops.

Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

### SKIRVING'S

Enormously productive; flesh yellow, solid and yeet. Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25 sweet.

WHITE SWEET RUSSIAN

Excellent for table or stock. Very large size; white, solid, sweet and rich; keeps well.

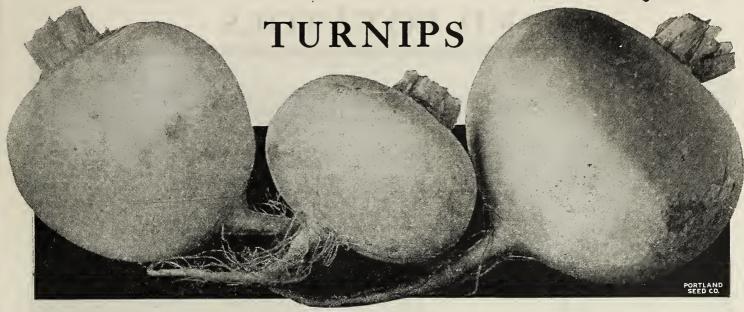
Pkt 5c, oz 15c,  $\frac{1}{4}$  lb 40c, lb \$1.25

IMPROVED AMERICAN PURPLE TOP The leading variety; large, immense yielder. Superior in every way.

Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

Cut Worm Food Protects Tomatoes, Cappage, Melons, Cappage, C





Orange Jelly

White Milan

P. T. White Globe

CULTURE—For early use sow the small sorts as soon as the ground can be worked in the Spring, in drills fourteen inches apart. As the seed is very fine, it should be covered but slightly, except in very dry weather. For Fall and Winter use, sow the early kinds during July, August and September.

# Early Garden Turnips

### EARLY PURPLE TOP MILAN

This variety is ready for the table sooner after planting than any other yet introduced. Top small, erect, strap-leaved; bulb a deep purple above, white underneath; flesh white, firm and delicate. Pkt 5c, oz 20c, 1/4 lb 60c, lb \$2.00 delicate.

### SHOW!

### EARLY WHITE MILAN

Same as Purple Top Milan, but pure white, sweet and tender; best early market variety.

Pkt 5c, oz 20c, 1/4 lb 60c, lb \$2.00

### PURPLE TOP STRAP LEAF

A leading white-fleshed variety, and one of the best, either for the family, market garden or field crop. It is medium size, and produces a large crop. The flesh is firm, but tender, and of a superior rich buttery flavor. A good keeper.

Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

### EARLY WHITE FLAT DUTCH

One of the very best and most universally grown. Small, erect top, round, flat; flesh, white firm, but very tender and sweet. Of quick growth, it is soon ready for the table and keeps Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

### EARLY SNOWBALL

Early round turnip, maturing in seven weeks, is of perfect form, snowy whiteness, crisp, solid, fine flavor. Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

### ORANGE JELLY Or Robertson's Golden Ball

Undoubtedly one of the most delicate and sweetest yellow-fleshed turnips yet introduced. Not of large size, but firm, hard and most excellent flavor. Keeps well and is superior as a table variety. It is extensively used by market gardeners. Pkt 5c, oz 15c, ¼ 1b 40c, 1b \$1.25

### Main Crop Turnips

#### **COWHORN**

Sometimes called Long White. Slightly crooked. Pure white except a little shade of green at the top. Grows half out of the ground and is of very rapid growth. Is delicate and well flavored. Has proved itself one of the best stock turnips ever introduced in Oregon; an immense yielder. Pkt 5c, oz 15, ½ 1b 40, 1b \$1.25

### POMERANIAN WHITE GLOBE

One of the most productive kinds, and in good, rich soil, roots will frequently grow to 12 pounds in weight. It is of perfect globe shape; skin white and smooth; leaves dark green and of strong growth. Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

### PURPLE TOP WHITE GLOBE

A large, globe-shaped variety; purple above the ground. It is handsome and of excellent quality; recommended both for family garden and field crop. Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

### LARGE WHITE NORFOLK

A white variety, usually attaining a very large size. Extensively grown for stock feeding. The leaves are also used for greens. It is hardy and may remain in the ground all Winter. Yields very large crop. Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25

#### WHITE EGG

Is perfectly smooth, of a pure, clear white, growing half out of the ground, and at times to the size of a Ruta Baga, being a very choice kind for table use; of excellent flavor; sweet and mild. Pulls clean from the ground, thin, snow-white Pkt 5c, oz 15c, 1/4 lb 40c, lb \$1.25 skin.

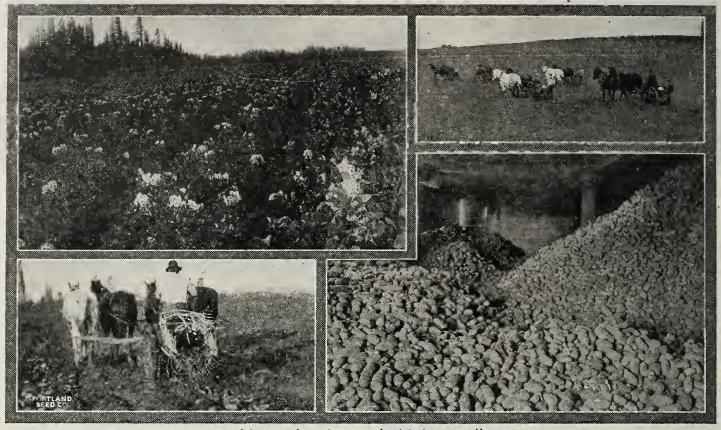
### YELLOW ABERDEEN

Round, medium size; light yellow. Produces a large crop; is hardy and keeps well; flesh very firm but tender and sweet. A great favorite with the dairymen

Pkt 5c, oz 15c,  $\frac{1}{4}$  1b 40c, 1b \$1.25



# SEED POTATOES



Views of seed crop of "Multnomah"

**P**OTATOES are of such great economic importance as a food, give quick, sure, cash returns and are so valuable in crop rotations that our experience as growers may be of interest and helpful to others at this critical time when there is a general awakening to the necessity for better cultural methods, standardization of crops and above all a systematic selection of seed.

Unfavorable growing conditions in many sections and the urgent necessity for food conservation have made it plain that some action must be taken to improve the quality and increase the average yield.

IMPORTANCE OF SELECTION

Two potatoes of equal appearance selected from the bin or pile may not produce the same general results, for the reason that the tendency is to reproduce the characteristics of the hill instead of the individual tuber, hence the selection of one good potato from an otherwise poor hill will not give the results that a potato of the same general appearance from a good heavy yielding hill. Small potatoes as a rule come from poor hills, and if planted tend to produce small potatoes and poor hills.

Ample evidence that potatoes do not "run out" under normal conditions is furnished by some of our standard, well known varieties, such as Burbanks, Garnet Chili, Early Ohio and Early Rose, which for 60 years, in the case of the Garnet Chili, have proven true to type and show great vigor and yielding qualities under favorable conditions, also demonstrating that excellent results are to be obtained by careful selection and good growing methods.

For many years we have been growing Seed Potatoes by careful re-selection and, comparative tests in various sections, have shown that our select seed will produce larger crops and more uniform, salable tubers with average soil and culture and have proven profitable and satisfactory under the conditions for which they are recommended.

# Choosing the Best Variety

There is no one best potato but there are many excellent sorts some of which will prove more profitable and satisfactory for your purpose than others. In choosing a variety of potatoes consider your soil conditions, market requirements, climate and seasons, and history of available seed stock.

We have much valuable data that will be helpful to you in your selection that is free on request.

To secure a ready market and increase your profits you should grow only the best standard sorts that are known to be suited to your soil and are in demand in your market.

The following descriptions have been carefully written from our own experience, with the addition of notes on origin of varieties from Bulletins of the U. S. Dept. of Agriculture.

The illustrations are from our own photographs of average types.

POTATOES are as sure and profitable a crop, investment and labor considered, as can be grown. And the varieties we offer (seed stock of our own growing), will produce the maximum yield of shapely salable tubers that will command the highest market prices. We can tell you the best varieties for your market and soil.



### **GROWING POTATOES**

**70U ca**n g**row potatoes** under most average conditions of soil and care, but for the big yields of shapely tubers that pay big profits it requires soil adapted to potato growing, good seed stock properly planted, and plenty of cultivating at the right time. You can make your soil fit by proper rotation and use of necessary fertilizers.

SOIL REQUIREMENTS AND TREATMENT—Good Potato soils—those that produce big yields of shapely tubers, having good table and keeping qualities—may be of several different types.

Clay loam, sandy or gravelly loam, silt, wet land and soils heavy in organic matter have all produced excellent potatoes. But only where the drainage is good and the soil well aerated and properly worked can best results be obtained. Given a soil of average fertility drainage is of the utmost importance, next in order being the organic content in the form of humus to retain the moisture and in the case of heavy soils to improve their mechanical condition after proper drainage has been secured. A soil rich in organic matter not only conserves the necessary moisture for the growing crop but is less susceptible to the extreme changes of atmospheric temperatures that are often so unfavorable to growth and development.

SOIL AND DISEASES—It is generally recognized that certain soil types are favorable to certain of our common potato diseases and where it is possible to do so, advantage should be taken of this knowledge and extreme care used to prevent the introduction of certain diseases to soil conditions that are favorable to their development.

Rhizoctonia and Black Leg, as examples, develop more freely and cause more loss on heavy

wet soils. Scab is more prevalent in soils having an alkaline re-action.

Rhizoctonia is favored by an acid or neutral soil, therefore the alkalinity or acidity of the soil influencing certain diseases can become a factor in their control. The use of lime, producing an alkaline re-action may increase the amount of Scab, while the plowing under of a soiling crop will increase the acidity of the soil and lessens Scab but makes conditions more favorable for the development of Rhizoctonia.

Barnyard manure, bone meal, wood ashes and some of the forms of potash salts are all conducive

to Scab and if used should be applied the Season or Fall previous to planting.

SEED TREATMENT—Dipping either in a solution of Formaldehyde or one of Bi-Chloride of Mercury (Corrosive Sublimate) are the two methods generally recommended for treating seed potatoes, as follows:

Formaldehyde, 40% Commercial Solution...... 1 pint

Soak the potatoes in this solution for two hours and spread out to dry. This treatment is effective against Scab but as it is not to be depended upon for Rhizoctonia, the Bi-Chloride of Mercury solution is always recommended as it will do all that the Formaldehyde accomplishes and takes care of our most troublesome disease, Rhizoctonia. The Bi-Chloride of Mercury solution is prepared as follows:

Bi-Chloride of Mercury (Corrosive Sublimate)..... 4 ounces Water.....30 gallons

Soak the potatoes in this solution from 1 ½ to 2 hours and dry before planting.

SPECIAL NOTE—In dissolving the corrosive sublimate use a small amount of hot water, about a gallon to the ounce, adding it to the cold water when it is dissolved as it will be impossible to get good results by attempting to mix the entire amount in cold water.

WARNING—The poisonous nature and corrosive action of this solution makes it necessary to use care in handling and to keep the treated potatoes from stock or poultry. Any that are not used should be burned or buried. Make the solution in a wooden or porcelain container as it

will corrode metals and rapidly lose its strength.

Both of these solutions will lose strength through use or standing for any length of time and should be made up fresh and not more than four lots of potatoes dipped without renewing the solu-The dipping can be done in bags or crates but the potatoes should then be spread out to dry, care being taken not to re-infect them by using the same bags or containers or spreading them where they would again be in contact with untreated stock.

GREENING—After dipping, the seed should go through the process of greening, leaving them spread in the light and warmth when the light will cause them to assume a greenish color and sprouting will begin. Sprouts brought on in this way will be short and thick and the potato will awaken from its dormant condition and develop much more vigor and vitality than potatoes that are not so treated. The greening also is a big factor in eliminating fungus growth and diseases. Another very valuable result from greening is the time gained as the potatoes thus treated will germinate and develop very much earlier than they would otherwise.

SPRAYING STORAGE HOUSES—A storage house, cellar or bin should always be sprayed before putting the crop away. The following formulae being recommended—either one of which is easily prepared and applied by the use of any available sprayer or pump.

1 lb. Copper Sulphate to every 10 gals of water.

The formaldehyde solution is 1 pt. to each gallon of water—either of these should prove satisfactory if thoroughly applied.



### EARLY VARIETIES

### Spokane Seed Company's "EARLIEST OF ALL"

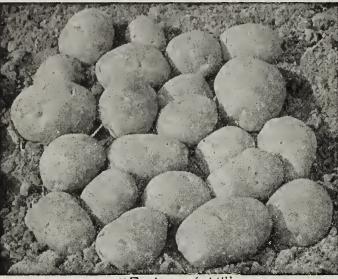
CAN BE HAD READY FOR BAKING 9 WEEKS FROM PLANTING, FULLY MATURED IN 12 WEEKS

ORIGINALLY a selection from Early Eureka introduced by Portland Seed Co., 1908, showing a marked difference in habit and greatly increased yield which years of careful re-selection have firmly fixed and improved. "Earliest of All" is a shallow eyed, white skinned variety of vigorous growth, not subject to blight or disease and does not make a second growth. The tubers are smoother and have fewer eyes than other varieties of this type. The white blossoms also easily distinguish it from Irish Cobbler, which has a purple bloom. Not affected by summer drouths owing to its

quick growth and early maturity. Keeps as well as any late potato. The earliest of all early potatoes.

Prices, not prepaid: 10 lbs or less 7½c lb, 50 lbs 7c lb.

TO BE SURE of getting the genuine "Earliest of All" buy direct from our Portland store. Beware of substitutions and varieties that are "just the same."



"Earliest of All"

Eurly White Prizetaker

### Early Ohio:-

One of the best early pink potatoes, similar to Early Rose. Tubers round, oblong shape: Eyes rather shallow but strong. A heavy yielding dependable variety. An old favorite that is still popular in many sections.

Prices, not prepaid: 10 lbs or less  $6\frac{1}{2}$ c lb, 50 lbs 6c lb.

### Early Rose:—

Strong, vigorous vines of medium height. Flowers white, rather abundant. Tubers quite smooth, elongated or oblong, stem and seed end rather blunt. Eyes shallow, but sharp and strongly marked; skin thin but tough. Flesh creamy white sometimes streaked with red, solid and brittle, rarely hollow. Our strain of this grand "old timer" is exceptionally good.

Prices, not prepaid: 10 lbs or less  $6\frac{1}{2}$ c lb, 50 lbs 6c lb.

Storage of Potatoes

The vigor and vitality of seed potatoes are greatly affected by storage conditions. Storage cellars need not be expensive or elaborate, but should be clean, dry and well ventilated. The temperature should be kept as near 34 to 38 degrees as possible. If potatoes are kept at this low temperature the fungus and rot spores do not germinate and grow, causing losses from disease and rot. The low temperature can be maintained through proper ventilation and by having double walls, or walls filled in between with some material that is a non-conductor of heat.

walls filled in between with some material that is a non-conductor of heat.

Great care should be exercised sorting the potatoes before storing them. Practically none of the diseases and rot spores affect the healthy potato that does not have the skin broken. But, through the fork stabs, cuts and bruises the rot spores have easy access, enter, and break down the potato. All damaged and diseased tubers should be culled out before the potatoes are stored.

A large percentage of the potatoes in this section of the Pacific Northwest are stored in basements or cellars, which are often filled from the floor above, allowing to accummulate in large piles, with the loose dirt running down in among the potatoes, this practically cuts off the air and the sprouts or eyes are literally smothered. This is often the cause of weak spindly sprouts in the Spring and fully two-thirds of the poor stands result from this cause.

Pits in well drained places, simple and inexpensive are all right properly ventilated. Potatoes should be allowed to seel before being the contract of the poor stands.

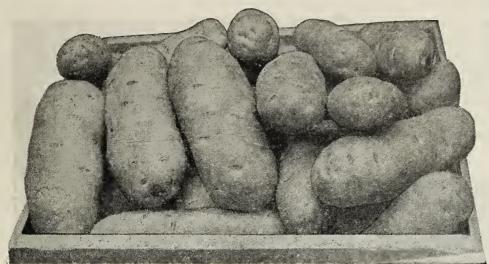
Pits in well drained places, simple and inexpensive are all right properly ventilated. Potatoes should be allowed to cool before being stored in pits. Any sort of storage place that assures freedom from frost, excessive moisture and proper ventilation should prove satisfactory

# SÉED

### MAIN CROP AND LATE VARIETIES

### PRIDE OF MULTNOMAH

Excels in Yield and Table Quality



PRIDE OF MULTNOMAH
Potato was introduced by us in 1909. Tubers are uniform in size, of the ideal elongated type with smooth, thin white skin; eyes shallow; flesh snow white, of finest table quality; flowers white; vines medium large of bushy growth; withstands drought; and is blight and disease resistant to a remarkable degree.

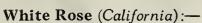
Pride of Multnomah is the leader in its class, being superior in yield, uniformity and table quality—holding the record yield for the State of California from our Oregon grown seed—790 bushels of clean, uniform stock, the prize acre at P. P. E., San Francisco, 1915.

Prices: Not Prepaid, 10 lbs or less, 6½c lb; 50 lbs, 6c lb.

#### Producer:-

A large, smooth, oval, white potato with shallow eyes, of finest table quality, does not boil to pieces and has no superior baked. Is a hardy, vigorous grower, producing enormous yields and is especially valuable for dry or light soil, and has shown up better in our trials than any other new variety. Sample hills dug on overflowed river sediment averaged 4 lbs. 3 oz.—416 sacks of 120 lbs. each to the acre—without irrigation. *Producer* is our own introduction and gives promise of becoming the standard of its type in this market.

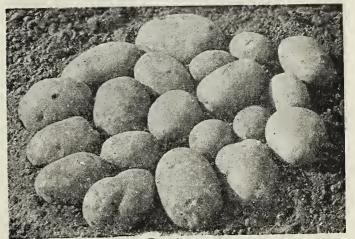
Prices, not prepaid: 10 lbs or less  $6\frac{1}{2}$ c lb, 50 lbs 6c.



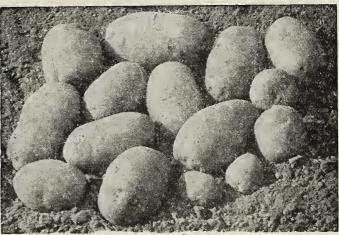
A standard market potato in southern California, the shape being a flattened oval rather elongated, having few eyes and a beautiful creamy white skin. Abundant foliage and lavender flower—fading to light. Yields well, and although not an early maturing potato, it makes a vigorous rapid growth and can be used quite early. The strain we have is the best. The one in big demand in California (see note).

Note.—The White Rose originating in Aroostook Co., Maine, is a different type of potato from the above, having the physical characteristics of the Early Rose and is a white flowered variety. To avoid confusion California has been added to the name to distinguish this variety.

Prices, not prepaid: 10 lbs or less  $6\frac{1}{2}$ c lb, 50 lbs 6c.



Producer



White Rose-California

### Fertilizers Increase Yield and Profits

Prof. L. P. Gilmore of the Monmouth Normal School, Monmouth, Oregon, reports an increase of 48 sacks per acre under irrigation and 43 sacks per acre under dry conditions by the use of 500 pounds per acre of **P. S. Co.'s Vegetable Fertilizer**, as follows:

Fertilized—Irrigated......219 sacks Not Fertilized—Irrigated.....171

Fertilized—Dry Farming...... 110 sacks Not Fertilized—Dry Farming.... 67

A very interesting point brought out by his experiments is the ratio of increase of the non-irrigated crop as compared to the increase under irrigation. The actual increase being about the same. These trials were carefully made and recorded, and demonstrate the great value of our fertilizers under all conditions.



### Main Crop and Late Varieties—Continued

#### Burbank:-

A standard commercial variety. Late and very productive. Skin nearly smooth. Eyes rather shallow. Tubers long and slightly flattened. Under proper selection it thrives equally as well now as at any time since its introduction. We offer a select true heavy yielding strain.

Prices, not prepaid: 10 lbs or less 6½c per lb, 50 lbs 6c lb.



Burbank

Netted Gem:—California Russett, Russett Burbank, Yakima Gem, Idaho Russett, etc.

A splendid main crop late potato that gives good results in dry sections. Tubers are elongated, medium sized with russet netted skin; flesh white; eyes are flush with surface; good keeper and produces a fine yield. This is the variety grown extensively by irrigation in Washington and Idaho for baking. Our stock is extra choice of the most improved type.

Prices, not prepaid: 10 lbs or less 6½c per lb, 50 lbs 6c lb.

#### Carmen No. 2:-

A flattened oval type, white skinned, a vigorous grower, yields well and is of good quality. Prices, not prepaid: 10 lbs or less 6½c per lb, 50 lbs 6c lb.



American Wonder

#### American Wonder:-

One of the earliest and best main crop varieties. Strong grower of branching habit and great producer. Tubers white, large and uniform in size; elongated and slightly compressed. Blooms white; foliage rich dark green. Our stock is of exceptional quality.

Prices, not prepaid: 10 lbs or less  $6\frac{1}{2}$ c per lb, 50 lbs 6c lb.



Netted Gem

#### Blue Victor:-

A hardy, purplish colored Potato, being white and mealy inside and of excellent quality. Grown extensively in Eastern Washington. Oregon and Idaho for use the following Summer, being a very late keeper.

Prices, not prepaid: 10 lbs or less 6½c per lb, 50 lbs 6c lb.

POTATO GROWERS SHOULD PRACTICE A FOUR-YEAR ROTATION. Grain, Clover, Corn, Potatoes. Scab and Rhizoctonia are not so troublesome when corn follows clover before potatoes.

#### CUTTING THE SEED PIECES

Experience has shown that the two ounce seed piece is the most satisfactory and profitable to plant and each piece should contain at least two good eyes and should be cut in a square or blocky shape, rather than thin and long. Since the strongest buds are near the bud end of the tuber the seed sets should be cut in a manner to include one or two of these strong buds on each piece. Experience is the only guide to efficiency and the cutting of seed is very important as it has much to do with the stand. There are mechanical cutters on the market but these are not generally recommended and there is much waste from pieces that do not possess strong eyes.

To insure against rotting in the ground, should the season or planting conditions be unfavorable, dusting the cut potatoes with land plaster drys up and hardens the surface, insuring a better stand. Other materials used for this purpose have not given the same satisfaction as land plaster.



### Monthly Planting Calendar for Vegetables

	Under Glass	Open Ground	Setting
ASPARAGUS—All varietiesARTICHOKE—Globe		March to May March and April	
BEANS—Bush			
Pole		May and June	
BEET—Early			
Late Mangles Sugar and Swiss Chard	• • • • • • • • • • • • • • • • • • • •	April to July	
BRUSSELS SPROUTS		April to June	July to September.
BROCCOLI	. <u>.</u>	April to June	July to September.
CAULIFLOWER—Early	February	May and June	March and April.
LateCABBAGF—Farly	February	iviay and June	May to July.  March and April.
CABBAGE—Early. Late.	March	April to June	May to July.
CARROT—Early	l	March and April	
Late	Eshman mar	April to June	April and May.
CELERY—Early.	rebluary	April and May	May and June.
CHERVIL			
CHICORY		April and May	
CHIVESCOLLARDS	• • • • • • • • • • • • • • • • • • • •	March and April	April and May.
CORN—Sweet Early		May and June	
Sweet Late	1	May to July	
CORN SALAD.			
CRESS	March	March to June  May and June	May to July.
EGG PLANT.	March		May to July.
ENDIVE	1	April to July	
HORSE RADISH		Morrond Irms	March to May.
KOHL RABI		May and June	June and July. May to July.
LEEK	February	March to May	April to June.
LETTUCE—Early	February	March and April	April and May.
LateMELON		April to August  May and June	May to August. May and June.
MUSTARD.		March to October	
OKRA		May and June	
ONION—For Dry Onions	February	March to May	April to June.
ONION SETS—For Bunching. PARSLEY		March to Uctober	
PARSNIP		March to June	<b> </b>
PEAS—First Early		October and November	<b></b>
Second Early		March to July	
Late PEPPER	February and March	April to July	May and June.
PUMPKIN	and iviaion.	May and June	
PUMPKIN. RADISH—Early.	February	April to September	
Winter		May to September	November to April.
RHUBARB. SALSIFY		April and May	November to April.
SPINACH		April to October	
SQUASH—Summer	February	May and June	May and June.
Fall and Winter	February and March	May and June	May and June.
TOMATO	February to April		May and June.
TURNIP—Early		March to May	
Late			
Ruta Baga HERB SEEDS	• • • • • • • • • • • • • • • • • • • •		
POTATOES.		April to July	

# Hints on Fertilizing the Garden

Where no manure is used the fertilizer should be spread over the surface of the finely prepared seed bed at the rate of five pounds for a plot ten feet square, just before planting. The surface soil should then be thoroughly raked so as to mix the fertilizer evenly to a depth of two inches. Never place seed or transplanted plants in direct contact with fertilizer.

Thoroughly mixing of the fertilizer with the soil is essential to prevent injury of seed or roots.

Tomatoes, Potatoes, Spinach and some other crops requiring rather long growing seasons, are materially benefitted by a second application of fertilizer when half grown. Side dressings of this kind should be scattered between the rows at the rate of four ounces (one-half pint) to ten feet of row, when rows are spaced two feet apart; and pro rata for rows spaced a greater or lesser distance. To insure even distribution mix the fertilizer with fine, dry earth just before spreading.

Forcing Growth—Sodium Nitrate is a very strong stimulant for young growing plants. Vegetables grown for their leaves and stems, like lettuce, cabbage, celery, etc., can be improved by a light application or two of Sodium Nitrate in the early growing period. Nitrate of Soda is readily soluble. Use one pound to a ten-quart pail of water. Apply this in small amounts some little distance from the plant. Repeat in from twenty to thirty days.



# FIELD AND FARM SEEDS

THERE are many varieties of grasses and forage plants offered by Eastern seedsmen (often under new names) that will not give profitable crops in our climate, and to avoid disappointment, we refer you to the following list, which has been carefully selected and contains the most desirable varieties for general and special purposes.

A careful reading of the following pages will give you much valuable information that has required

years of observation and experimenting to obtain.

—IMPORTANT—Read Carefully—

Clover, Grass and Field Seeds are subject to market changes, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity wanted; or send in your order at catalog prices. We guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower, or if the difference is very great we will notify you before shipment.



Single pound prices include postage. 100-lb PRICES are F. O. B. SPOKANE, and are SUBJECT to MARKET CHANGES. But—You will always get full value for money sent us. Write for prices on large quantities.

#### ARTICHOKES

Planted and cultivated same as potatoes. Of great value for feeding stock. They are the best hog feed known; are remarkable for fattening prop-



erties, great productiveness (over one thous and bushels having been raised on one acre) and ease with which they can be grown. They need not be dug. Turn the hogs into the field, and they will help themselves by rooting. One acre will keep from

twenty to thirty hogs in condition from October until April, highly recommended for milch cows, increasing yield of milk and at the same time improving their condition. Plant ten bushels per acre.

Note—Tubers on hand from January to May.

Per 1b postpaid 15c; F. O. B. Spokane, 100 1bs \$2.50.

### COW OR THOUSAND HEAD KALE Plants in Season

The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen; endorsed by Agricultural Colleges and Government Stations. Cow Kale should be grown in the same manner as cabbage. Make the rows 4 feet, plants 3 feet apart in the row. Can be set as late as July. Write for full information on Planting and Feeding.

A quarter of a pound of seed will produce enough Kale plants for one acre.

Postpaid: Oz 10c; 1/4 lb 30c; lb 90c

#### BUCKWHEAT

Buckwheat is a valuable crop that can be easily grown wherever wheat will grow, producing a good yield even on light or poor soil and under favorable conditions is very profitable, being in big demand for milling—and is also the best "Bee pasture."

Sow 36 lbs. per acre in drills, 48 lbs. broadcast.

SILVER HULL—Of a light gray color, rounder than the common; has a thin husk; matures earlier and yields heavily. An excellent milling variety.

Per 1b postpaid 20c. Write for quantity price.

JAPANESE—Ripens early—is hardy and yields the largest crops. The grains are extra large, dark brown, very thin hulled and makes the highest grade of flour.

Per 1b postpaid 20c. Write for quantity price.

If you A Sharples

2 Cows
or more
Suction Feed
Separator

Will save your time and soon pay for itself.

We are factory agents for Sharples Separators and Milking Machinery

Full information on request

### FLAX SEED

We have a splendid lot of selected recleaned Western-grown Flax, new crop, large plump seed. Per 1b postpaid 30c; not prepaid 100 lbs \$15.00

Remember ALL PRICES ARE SUBJECT TO MARKET CHANGES. You will always get your money's worth or we will quote on request.



# BARLEY

BARLEY is a shallow feeder, the roots growing near the surface, and requires a rich, mellow soil. Barley responds readily to good tillage and any extra work with the disc and fine tooth harrow will be amply repaid. Do not try to grow upon poor, sandy or worn out soils, or where the ground is not in good condition or well drained. In rotation, Barley follows Corn, Peas, Potatoes, or any cultivated crop, and is the best nurse crop for starting clovers or mixed grasses. Should be planted late after ground is warm and Spring weather settled. Plant two bushels per acre. Crimson Clover planted in the Fall and plowed under after blooming in the Spring, leaves the soil in fine condition for barley.



Trial Plot of Hannchen Barley, Oregon Agricultural College

### NEW—"ODERBRUCKER" BARLEY

This is a Pedigreed strain of 6-row barley, selected and bred by the University of Wisconsin, and is considered the earliest maturing, most prolific of all the barleys. Has a stiff straw, is rust resistant, and owing to its high protein content is a very superior feeding sort. This is the variety that was secured at great expense by the Oregon and Washington Railroad Co. for introduction in their territory. We offer the genuine stock of our own growing.

Price: 1b postpaid 15c; freight or express, F. O. B. Spokane 10 lbs 65c; 100 lbs \$5.00

### BLACK HULLESS BARLEY—Bearded Best of grains for feeding or fattening stock. Greater food value than corn.

Black Hulless Barley will grow on the dry Alkali soil where other grains fail. Sow in the Fall or Spring as late as June 15, 75 to 100 lbs. per acre. Will yield as high as 75 bushels to the acre, weighing about 70 lbs. to the measured bushel; does not shatter or shell out easily.

When planted in the Fall its abnormal stooling habit and wide succulent leaves make it ideal for late Fall pasture yielding a full crop the next season. Stock prefer and thrive on it. Per lb postpaid 15c; F. O. B. Spokane, 100

1bs \$6.00.

### WHITE HULLESS OR BALD BARLEY Beardless

An early Spring variety—beardless, of high feeding value, said to exceed corn as a pork producer. Can be fed to all live stock-especially valuable used in a mixed ration. Grain plump, heavy and when threshed is hulless like wheat. A heavy cropper. When grown and cut for hay it produces a magnificent fodder, which is very rich and almost equal to a grain feed.

Culture same as Common Barley. Per 1b postpaid 15c; F. O. B. Spokane 100 1bs \$6.00.

#### HANNCHEN BARLEY

Hannchen is the earliest and best of the 2-rowed barleys, is drought resistant and a sure and heavy cropper. The seed stock we offer was grown from seed secured from the Oregon Agricultural College. We call special attention to the plumpness of the seed, thinness of the hull and the ease with which the beards break off. It frequently happens that these beards drop in the field before harvest. Although a Spring Barley the United States Department of Agriculture has successfully grown Hannchen Barley from fall seeding where the winters are mild.

Price: 1b postpaid 15c; freight or express F. O. B. Spokane, 100 lbs \$5.15.

#### BEARDLESS BARLEY

Straw is about the height of the Common Barley, but better, and will stand up on any land; our seed crops have averaged 65 bushels per acre in dry unfavorable seasons. Sow as early as you can; frost does not hurt it. Many farmers will not grow Barley on account of the long, harsh beards which are so disagreeable in threshing although it is a profitable crop. This is as nearly beardless as seems possible to obtain, as beardless barleys show a tendency to produce a small percentage of bearded heads; it is about as easy to grow and handle as oats, and is the most Popular Barley grown.

Per 1b postpaid 15c; F. O. B. Spokane, 100 1bs \$5.15.

#### **COMMON BARLEY**

We always aim to have a nice, clean stock of good Seed Barley on hand at all times. This is the common 6-row bearded type.

Per 1b postpaid 15c; F. O. B. Spokane 100 lbs \$4.75.



# FIELD CORN



SIXTY-THREE PER CENT of the feeding value of a matured corn plant is in the ear. Corn to mature properly must be adapted to the section where grown, requiring several seasons of intelligent care and selection.

Our Washington Grown Corn being thoroughly acclimated will give splendid satisfaction under the conditions and for the purposes recommended—we have large stocks and can supply any amount at very reasonable prices.

CULTURE—Thorough preparation of the soil is necessary for best results, methods of culture being determined by the different conditions of soil, climate, moisture and previous crops. The ideal soil is a deep warm one with a little sand, well drained and with sufficient humus to hold the moisture.

Deep plowing is always necessary for best results, and the heavy soils on the West side of the Cascades will give best results from Fall plowing, repeating in the Spring before seeding time. A liberal amount of stable manure and thorough tillage will help offset the cold nights. For best results when planted for grain, plant in hills 42 inches apart, allowing two stalks to the hill. For fodder or silo, three stalks, if the ground is rich.

For East of the Cascade Mountains—quoting "Farmer Smith"—"Where rainfall exceeds 12 inches and Corn is to follow Wheat, roll the stubble with corrugated roller right after harvest; then after first heavy rains, disc crossways of the rolling. If open weather, plow or disc thirty days later, allowing to lay in the rough until Spring. Ten loads of stable manure put on during the Winter or Fall will prove helpful. In the Spring when ground can be worked, disc and harrow every two weeks until May 1st. then plow deep, discing every day's plowing and harrow, roll or clod-crush to a fine well-packed surface. List 6 inches deep in 42-inch rows, kernels 12 to 14 inches apart in the rows. If Lister is not available, plant at bottom of 6-inch furrow made with a stubble plow. Five days after planting, harrow with slanting spike tooth harrow, repeating every week until Corn is 4 to 6 inches high, then continue cultivating until in tassel."

### **WASHINGTON GROWN YELLOW DENT**

By careful and continued selection this splendid corn has become acclimated and perfectly adapted to the short seasons of the Northwest and will mature fully every year if planted at a seasonable time. The table quoted from the New York Experiment Station report gives definitely the values of mature and immature corn, showing the loss when the crop is not ripened. (See page 45.)

Washington Yellow Dent makes a quick growth with abundant foliage, maturing early and gives a good grain yield and will make silage of the highest food content. Especially adapted to the Palouse Country and irrigated valleys of the Pacific Northwest. Price per lb 15c, 10 lbs \$1.25



# FIELD CORN—Continued

For single pounds by mail add 10c postage. Larger lots at parcel post rates

All sorts of field corn 10c per package; prices per 100 pounds on request

### HARTMAN YELLOW DENT CORN

"Hartman" is now considered a standard Dent Corn for grain west of the Cascade Mountains, and is also good for silo. Cob is small, ears medium to large, stalk light, allowing close planting.

1 lb 15c, 10 lbs \$1.25

### MINNESOTA KING (DENT)

Smallest cob and largest grain. The ears are uniformly well filled out. Golden yellow and a good yielder, being a safe corn to plant west of the Cascades.

1 lb 15c, 10 lbs \$1.25

### PRIDE OF THE NORTH YELLOW DENT

Pride of the North has long been the standard Corn recommended by the Agricultural Stations as the best Yellow Dent for Eastern Oregon, Washington and Idaho, and our Oregon grown seed has given splendid results whenever conditions have been at all favorable, maturing early and yielding heavily, the foliage being luxuriant and of medium height. "Pride of the North" is specially recommended for silo.

1 lb. 15c, 10 lbs \$1.25

#### EARLY CANADA (FLINT)

An eight-rowed Yellow Flint Corn; early and very productive. 1 lb 15c, 10 lbs \$1.25

### MINNESOTA No. 13 YELLOW DENT

The earliest of the early Yellow Dent corns and reported to be the heaviest yielding, producing splendid large ears, closely filled from end to end with bright yellow kernels. Has rather a thick cob and the shelled grains have a tendency to irregularity. "Minnesota No. 13" will average 7 feet high and being a rapid, vigorous grower, with heavy foliage, makes a fine fodder corn, and is especially recommended for ensilage west of the Mountains. Will mature in 90 days under favorable conditions.

1 lb 15c, 10 lbs \$1.25

#### CHAMPION WHITE PEARL

A large, White Dent variety; very popular with our dairymen on account of the great amount of green feed it makes.

1 lb 15c, 10 lbs \$1.25

### WHITE FLINT

This valuable variety is specially adapted to Northwestern conditions. It is earlier than the well-known "Eight-Row Canada," and is to be preferred on account of its color, productiveness and very early ripening. 1 lb 15c, 10 lbs \$1.25

### KING PHILIP

An early Red Flint Corn; well acclimated and well known. 1 lb 15c, 10 lbs \$1.25

#### WHITE RICE

Pop Corn. Best variety for popping corn. For Seed per lb 25c. For Popping per lb 15c.

### COMPARATIVE FOOD VALUE OF CORN

As an economic feed crop Corn is without a peer. Twenty to thirty tons of silage per acre are within the reach of every corn grower, who will plant good seed, fertilize wisely and cultivate diligently. Land that is producing three to four tons of hay will produce double this amount of feed planted to corn. Progressive farmers are realizing these facts and the corn acreage is increasing rapidly from year to year.

rapidly from year to year.

To realize the full value of a corn crop the whole plant must be utilized. The silo is the best storehouse for this crop. Corn cut when fully matured, but not over-ripe, and put in the silo saves the maximum amount of feed per acre. In sections of light rainfall after harvest time the corn may be cut and cured in the shock and fed dry as fodder. There is considerable loss from this practice, but yet the feed produced on an acre would much more than equal the hay produced.

Dry corn fodder can be run through the silage cutter and by applying water a fair

grade of silage can be made.

### REPORT OF NEW YORK EXPERIMENT STATION—ONE ACRE OF CORN

Weight of Total Crop	Water	Matter	Starch
		-:	
July 30 (fully tassled) 9.0 tons	8.2 tons	.8 tons	122.2 lbs.
August 9 (fully silked)	11.3 "	1.5 "	491.3
August 21 (kernels, watery to milk)16.3	14.0	2.3 "	706.7
September 7 (kernels glazing)16.1	i 2.3 ''	3.6 "	1735.0
September 23 (ripe)14.2	10.2	4.0	2852.0 "

Other nutrients increase in amount in about the same proportion with the exception of protein, which reaches its maximum amount before maturity.

For silage cut when kernels are glazed and well dented at which time more than 50% of the feeding value is in the grain.

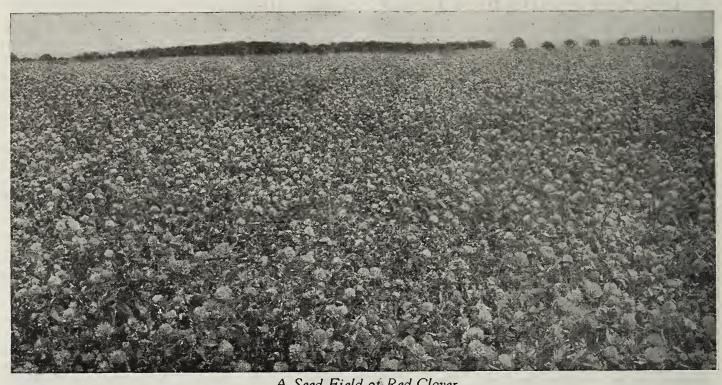
The Acme Automatic one-hand Corn Planter Puts the right number of kernels just where you want them and at the proper depth. Works equally well with right or left hand.



### CLOVER AND ALFALFA SEEDS

Write for prices on 100 lbs. or ton lots. They are always subject to market changes. See page 42

Single pound prices postpaid; for larger lots add postage at zone rate.



A Seed Field of Red Clover

### Alfalfa or Lucerne Clover

A LFALFA should be cut for hay when the shoots of the next crop appear at the base of the plants. The hay is especially valuable for dairy cows. As soon as cut it immediately commences to grow, and during the hottest and driest weather, when other grasses are parched and withered, it remains fresh and green and grows as rapidly as ever. On the low lands it is not an unusual thing to harvest five or six crops of hay from the same field in one season without irrigation, and the same result is obtained on high dry lands where irrigation is recented to. It will not succeed an hard result is obtained on high, dry lands where irrigation is resorted to. It will not succeed on hard, clayey soils. Its roots, in seeking moisture, penetrate to incredible depths. The seed should be sown in the Spring, after danger from freezing the young plants is over, or in the Fall, early enough to give it a good stand before frost.

The domestic acclimated seed we offer can be depended upon to give splendid satisfaction.

### Grimm Alfalfa

Grimm Alfalfa is the hardiest Alfalfa known. In trials, at practically every Experiment Station in the West and Northwest, it has headed the list for vigor and hardiness.

Grimm Alfalfa has a branching fibrous root system which makes it better adapted for dry lands and irrigated lands of shallow depth of soil. Being an early vigorous grower it gives heavier cuttings and larger total yield in sections of short growing seasons.

The stock seed of Grimm Alfalfa dates back to 1857 and was brought from Europe by Grimm who settled in Minnesota. From this small start Grimm Alfalfa has been distributed and become established in sections where other Alfalfas would not thrive and it is from these plantings that the present seed supply is drawn. Being scarce and in big demand the price is high but the value of Grimm has been demonstrated beyond question and we recommend its trial.

Price per 1b 85c postpaid

### DRY LAND ALFALFA

Dry Land Alfalfa will produce large, profitable crops of hay and excellent pasture on the high, dry lands of Eastern Oregon, Washington, Idaho and Utah, and is especially recommended for the hills and plateaux where irrigation is impossible. It comes from the highest, driest alfalfa sections, and is very superior seed.

Per 1b postpaid 65c

#### **ALFALFA**

Our domestic Alfalfa is acclimated, and will thrive splendidly where growing conditions are normal, including irrigated land. Where dry farming is practiced special Dry Land Alfalfa is recommended.

Price, 1 lb postpaid, 60c

### CLOVER SEEDS—Continued

### Clovers

- WHITE DUTCH CLOVER (trifolium repens)—
  Superior for pasture and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. Per lb postpaid, choice seed 80c; fancy 85c; write for quantity price.
- RED CLOVER (trifolium pratense) The standard Clover for all purposes. Hardy and succeeds well on any good soil. Makes superior hay—especially mixed with Timothy—either for dairy cows or for general use. Per 1b postpaid 75c; write for quantity price.
- CRIMSON OR SCARLET CLOVER (trifolium incarnatum)—Highly recommended for pasture and fertizing purposes. Is a thrifty annual, growing motive to thirty inches high. Germinat squickly, grows rapidly, and stools abuncantly. Cut for hay when in full bloom. Plented in the Fall can be plowed under at r blooming in the Spring and be followed with barley or potatoes. Lb postpaid 430; write for quantity price.

- ALSIKE OR SWEDISH CLOVER (trifolium hybridum)—A perfectly hardy perennial. Excellent for hay and pasture. Valuable for bees. Resists both drought and excessive moisture. The hay is preferred to that of Red Clover, being finer, brighter and not so dusty. Per 1b postpaid 70c; write for quantity price.
- MAMMOTH RED CLOVER Grows very large and is used almost exclusively for plowing under for manure. Per 1b postpaid 80c; write for quantity price.
- BOKHARA SWEET OR HONEY CLOVER (melilotus alba)—A rapid-growing, white-flowered sort; excellent for bees. Sow 10 pounds per acre. Per 1b postpaid 50c; write for quantity price.

Scarified per lb postpaid 55c; write for quantity price.

ESPARSETTE OR SAINFOIN (onobrychis sativa)—A deep rooting, perennial legume, extensively cultivated in dry, calcareous soils too barren for Clover or Alfalfa. Sow 50 lbs per acre. Prices on request.

Inoculate Your Alfalfa, Clovers, Cow Peas, Soy Beans, Vetches and all other legume crops with

# Mulford Cultures

**Small Cost** 

Large Returns

Easy to Use

No Labor Expense

Mulford Cultures are scientifically prepared and tested by experts, in the biological laboratories of H. K. Mulford Co., Philadelphia, U. S. A., with the same degree of care as Mulford Antitoxins, Serums, Vaccines, etc., which are standard all over the world.

Legumes offer the best-known means of maintaining soil fertility and rejuvenating over-cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of wheat, corn and other non-legume crops.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitro-fixing bacteria to induce a prompt "catch" and increase your yield.

Mulford Cultures are easily applied to the seed before planting and contain pure, tested strains of active, vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture and may readily be applied to your seed. The sealed bottle insures purity.

PRICES:—Always specify on your order what crop you want to inoculate, as there is a different strain of bacteria for each legume.

ALFALFA, RED CLOVER, WHITE CLOVER, ALSIKE, VETCH, PEAS, BEANS, SWEETPEAS, 1/4 acre 50c, 1 acre \$1.50, 5 acres \$5.00

Special small size for Sweet Peas, Garden Peas and Beans, 25c

FULL INFORMATION and MULFORD BOOKLET ON REQUEST

A Cahoon Seed Sower will cover the ground evenly and quickly without wasting seed—is easily adjusted for any amount or variety. The best built, most satisfactory and lasting seed sower. See Index.



The beautiful lawn under the trees at Holladay Park, Portland, was grown from Diamond Grass Seeds.

### DIAMOND GRASS SEED MIXTURES

IAMOND QUALITY GRASS SEEDS are the choicest new crop seeds, recleaned and tested for purity and germination, and only those stocks that grade above the established standards are offered to our customers.

Our Special Mixtures have been carefully worked out by the tests and observations of practical experts familiar with the requirements and conditions to be met. and will give the best results possible to obtain for the uses to which they are recommended.

### "DIAMOND" FANCY LAWN MIXTURE

To have a good lawn the soil must be fine and rich, and well leveled. Then the best seed obtainable should be used. Plant any time from September until late Spring, depending upon the weather and soil conditions. Raking in the seed is advisable, and rolling greatly improves the turf. In watering your lawn soak it deeply and not too often, as light watering every day brings the roots close to the surface, where they quickly burn or dry out. You must not expect to make a fine lawn with cheap seed. The best lawn grass mixture costs more at first than the poorer substitute, but will be found much cheaper and more satisfactory in the end. Our "Diamond Quality" Fancy Mixed Grass Seed is prepared from the choicest recleaned Grass Seeds that have been carefully selected for their fineness and deep rooting, close growing habits and seasonable qualities, producing an ideal dense, velvety turf of lasting quality that remains green throughout the year. Sow one pound to 400 square feet, 10 to 15 pounds to a 50-foot lot.

to 400 square feet, 10 to 15 pounds to a 50-foot lot.

Growing tests have proved our "Diamond Quality" Lawn Grass to be superior to any other mixture for our Western soils and climate; it is also free from chaff and foul seeds, weighing 23 pounds to the measured bushel. This is a guarantee of clean, plump seeds, as cheap chaff seed is very light.

Single 1b postpaid 50c, not prepaid 1b 40c, 10 1bs \$3.70



"DIAMOND QUALITY"

### GRASS SEED—Continued

Grass Seed Prices subject to change without notice. See note top of page 42

**SEASIDE LAWN MIXTURE**—A special mixture is required to meet the conditions on or near the coast, and this we call our "Seaside" Mixture. If your ground is very light or sandy, put on three or four inches of top soil to make a seed bed. After the grass is once up, the roots will penetrate the lower soil. Give plenty of water and an occasional dressing of our Lawn Fertilizer.

Single 1b postpaid 55c; not prepaid 45c; 10 1bs \$4.30.

FINE MIXED LAWN GRASS—For use where a temporary lawn must be quickly prepared, and if kept closely cut will be lasting and have a handsome appearance. A good, clean mix-1 lb postpaid 40c

Not prepaid, 1 lb 30c, 10 lbs \$2.90

DIAMOND TENNIS COURT MIXTURE— For those who prefer a grass court, our Tennis Court Mixture will give the best results possible, as it is made up of fine, close-growing, heavily-rooted grasses that make a dense and lasting turf. Single lb postpaid 65c; not prepaid 55c.

### SPECIAL PASTURE MIXTURES

No. 1. FOR GOOD LOAMY SOIL—A mixture of Grasses and Clovers, prepared especially for good, loamy soils, that will give satisfaction as a permanent pasture, or for mowing for mixed hay. For pasture, sow 20 pounds per acre.

Price postpaid 55c per lb. By freight or

express 10 lbs 43c per lb.

- FOR IRRIGATED LANDS—Use grass pastures and avoid bloat from green Alfalfa—Sow 28 pounds per acre, preferably in early Spring. As soon as well established give water as needed. With proper attention a permanent pasture can be maintained. Price lb 50c postpaid. Not prepaid, 10 lbs 38c per 1b.
- No. 3 FOR LIGHT SANDY SOIL—An extra fine mixture for sandy or light soils. This will make a good, strong turf, that under ordinary circumstances should last for many years.

Sow 20 pounds per acre.

Price postpaid 55c per lb. By freight or express 10 lbs 43c per lb.

No. 4. FOR DRY LAND-Mixed especially for the regions between the Cascades and Rocky Mountains, and on good, common wheat land. Try this mixture, as we believe that it will give you best possible results. Sow 20 pounds per acre.

Price postpaid 55c per 1b. By freight or

express 10 lbs 43c per lb.

No. 8. FOR ARID OR ALKALI LAND-Particularly for arid alkali lands. This mixture is composed of varieties that have proven to be the best for the soils mentioned. Sow 20 pounds per acre.

Price postpaid 60c per lb. By freight or express 10 lbs 47c per lb.

No. 10. HAY AND PASTURE MIXTURE FOR DRY HILL LAND—Especially suited to the dry sections, such as parts of Southern Oregon, Eastern Oregon, Eastern Washington and Idaho. This mixture is made up of varieties that can endure a great change of temperature from heat to cold, and at the same time will make a splendid mixed hay.

Price postpaid 55c per lb. By freight or express 10 lbs 43c per lb.

No. 11. FOR GRAZING PURPOSES—This is a mixture of grasses only, being made up for the benefit of those who wish a mixture without Clover, and will make a fine permanent pasture, but is not intended for hay.

Price postpaid 50c per 1b. By freight or

express 10 lbs  $37\frac{1}{2}$ c per lb.

FOR BURNED-OVER BOTTOM LAND, OR LAND INCLINED TO BE RATHER DAMP—This is a mixture that will do well either for hay or for permanent pasture on land that is too wet for many of the grasses and clovers.

Price postpaid 40c per lb. By freight or express 10 lbs 29c per lb.

STANDARD PASTURE MIXTURE—For general use; gives splendid satisfaction in the logged-off and burned-over lands of Western Oregon and Washington; is composed of standard Pasture and Hay grasses that thrive in this section; a good clean mixture, conforming to the standards of the pure seed laws. Write for price

MIXTURES FOR BURNED-OVER LAND—In grading and cleaning grasses and clovers, we frequently find combinations that are difficult of separation, and while the seeds are often of excellent germination and quality, they cannot profitably be separated and cleaned, so we blend them to produce pasture mixtures suitable for sowing on burns and logged-off land, which at the price are splendid values and very economical for such purposes.

Write for price

### DIAMOND LAWN FERTILIZER

Easily Applied, Has No Odor, and Gives Quick Results

Old Lawns require one to two ounces per square foot as a top dressing, applied early—December to March. This produces a vigorous early growth.

For New Lawns use 1 oz. to the square foot, worked into the soil before seeding. Repeat as a surface dressing when the grass shows a little growth.

"FERTILIZERS" is the name of our little booklet that tells about fertilizers—what they are and how to apply them. Free on request. See page 58.



### GRASS SEED - Continued



Grass Seed prices subject to change without notice. See page 42. Single pound prices postpaid, for larger lots add postage at zone rate.



TIMOTHY—(phleum pratense)—This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the Spring or Fall. Sow 15 to 20 pounds per acre

Choice, per 1b 30c, postpaid. Fancy, 1b 30c, postpaid.

- ITALIAN RYE—(lolium italicum)—A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or pastures (will last from two to six years). Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Sow 40 pounds per acre. Per 1b 30c postpaid, 10 1bs \$1.90.
- ENGLISH RYE GRASS—(lolium perenne)— A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. Forty pounds per acre. For Lawns this is used and recommended by many gardeners. If sown thickly, it makes a fine lawn, and for large grounds and parks it is very successful. Per 1b 30c postpaid, 10 1bs \$1.90.
- ORCHARD GRASS—(dactylis glomerata)— One of the most valuable of all the cultivated grasses, blooming with Red Clover, and making with it admirable hay. As a pasture grass it is more productive than any other, and does best under close feeding. Sow 28 pounds per acre.

Fancy Eastern per 1b 45c postpaid.

- RED TOP—(agrostis vulgaris)—A good perennial grass. Generally sown for permanent pastures. Does best on moist or even marshy land. If the ground is not overflow land it is advisable to mix it with Meadow Fescue, Orchard Grass or Alsike Clover. Sow 28 pounds per acre chaff seed; 14 pounds hulled. CHOICE UNHULLED per 1b 35c postpaid.
  - perior grade of Red Top that is free from chaff and light seed. Per lb 45c postpaid.
- CANADIAN BLUE GRASS—(poa compressa)
  —Recommended in all pasture mixtures on dry soil; thrives well on clay or hard trodden and poor soil. Sow 28 pounds per acre.

Per 1b 40c postpaid.

CHEAT SEED — (bromus secalinus) — Cheat yields a good crop of hay, especially on low or most soil and will stand considerable overflow without harm. It makes an excellent hay for cows or horses, but should be cut before it gets too ripe. Sow in the Fall or early Spring same as oats, and about 100 pounds per acre.

Per 1b 15c postpaid.

KENTUCKY BLUE GRASS—(poa pratensis)
—One of the best grasses for permanent pasture furnishing a constant supply of the most nutritious feed during the greater part of the year. Sow 28 pounds per acre. For Lawns—Blue Grass is used very extensively for lawns and is found in all lawn grass mixtures. Sow 1 lb. to 400 sq. ft. if used alone.

Fancy, per 1b 50c, postpaid.

- MESQUITE—(holcus lanatus)—It is usually sown on virgin soil without cultivation, after the ground has been burned over. Sow about 35 pounds to the acre chaff seed; hulled 15 pounds per acre.
  - FANCY HULLED SEED per 1b 35c post-paid.
- CREEPING BENT GRASS—(agrostis stolonifera)—Well adapted for sandy pastures near the Coast, and good for pasture on low lands. If sown alone, use 25 pounds per acre. Excellent for lawns. Use 12 to 15 pounds per 50-foot lot. Per 1b 70c postpaid, 10 lbs \$5.50
- RHODE ISLAND BENT—(agrostis canina)—
  Resembles Red Top. Makes a close sod;
  valuable for permanent pastures and meadows.
  Twenty-eight pounds per acre. For lawns use
  12 to 15 pounds per 50-foot lot. Gives good
  results. Per 1b 60c postpaid, 10 1bs \$4.90
- TALL MEADOW OAT GRASS—(avena elatior)—Often attains a height of three to four feet by the middle of June. Makes splendid hay and thrives on sandy loam, but makes its best growth where there is some clay. Can be fed as a pasture grass, and will generally bear cutting three times. For mixing with Perennial Rye and Alfalfa for sandy soils it is excellent. Sow about 30 to 40 pounds per acre alone or half that amount if mixed with the above varieties.

  Per 1b postpaid 55c.
- MEADOW FESCUE (festuca pratensis) Perennial; grows three to four feet high. Roots deep, thus resisting drouth. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pastures, being valuable to mix with other kinds. Sown alone, use 40 pounds per acre. Per 1b 60c postpaid.
- HARD FESCUE—(festuca duriuscula)—Fine, rather dwarf, justly noted for its drouth resisting qualities. Valuable as a pasture for sheep. Sow 20 pounds per acre.

  Per 1b 50c postpaid, 10 lbs \$3.70
- SWEET VERNAL—(anthoxanthum odoratum)
  —Valuable to put in pasture mixtures and lawn grass on account of its earliness and its delightful fragrance when in bloom. Thrives under all growing conditions but is only recommended for use in mixtures. If alone use 28 pounds per acre.

ANNUAL per lb 45c postpaid.

### GRASS SEED—Continued

BROMUS INERMIS—Russian Forage Grass -Awnless Brome Grass-This Bromus, on account of its strong perennial character, and its unusual drouth-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. Grows luxuriantly, is freely eaten dry or green by cattle and yields from 2 to 6 tons to the acre. Sow 25 to 30 pounds per acre. Spring or Fall. Seed weighs 14 pounds per bushel. Our new stock is exceptionally good, having a germination of 90% and is free from quack grass.

Per 1b, postpaid, 60c

RED OR CREEPING FESCUE — (festuca rubra)—Forms a close turf and is valuable for lawn and golf mixtures; thrives in sandy soils and along the Coast. (14 lbs. to the bushel.) Per 1b 65c postpaid, 10 1bs \$5.00

BERMUDA GRASS—(cynodon dactylon)-Suitable only for climates where the Winters are not below the freezing point. It stands the hottest and driest season. Sow 6 lbs. per acre.

Per 1b 85c postpaid, 10 1bs \$7.00

TALL FESCUE—(festuca elatior)—Succeeds best in moist alluvial and strong clayey soils; is very productive and lasting; valuable for permanent pasture, is relished by stock and on rich land makes fine hay—height 3 to 4 feet; weight 22 pounds per bushel.

Per lb 85c postp'd, not prep'd 10 lbs \$7.20

ROUGH-STALKED MEADOW GRASS-

(poa trivialis)—A most valuable grass which flourishes in moist, rich soils. Roots are perennial, but soft; foliage freezes down.

Per 1b 85c postpaid Write for prices on larger lots

CRESTED DOG'S TAIL—(cynosurus christatus)—A perennial grass with short, narrow leaves; valuable for lawns or pastures on dry, light land; makes excellent sheep pasturage. Use 20 lbs. per acre if sown alone.

Per 1b 60c postpaid, 10 lbs \$4.50

SHEEP'S FESCUE—(festuca ovina)—Grows freely in high, dry and open pastures. Its chief merit is for sheep pasture. Thirty-five pounds to the acre. Per 1b 50c postpaid pounds to the acre.

### MILLETS

Sow in April, May or June, 12 to 15 lbs. for seed, or 20 to 30 lbs. for hay per acre.

GERMAN OR GOLDEN—An improved variety, yielding a larger crop of seed than the Common Millet. It is also taller than the Common and yields a heavier crop of hay. Single lb 20c postpaid, 100 lbs \$9.50 yields a heavier crop of hay.

HUNGARIAN—A dwarf annual Millet. It is finer than the Common or German Millets, but produces a closer stand and yields almost as much per acre as the taller varieties. Superior for hay.

Single lb 20c postpaid, 100 lbs \$9.50

BROOM CORN MILLET—Is somewhat variable in character and is divided into several varieties, one of which is sometimes called Hog Millet, as the seed is often used to feed hogs. All of this class are better adapted to produce seed than for pasture.

Single 1b 20c postpaid, 100 1bs \$9.50

EARLY FORTUNE MILLET—Has given astonishing yields of both seed and fodder. It is very early and is claimed to be rust-proof. The fodder can be fed to horses and other stock without injury, even after the seed has formed which cannot be done with safety with most of the millets. The seed is large and of a beautiful red color.

Single 1b 20c postpaid, 100 lbs \$9.50

NEW SIBERIAN—New and wonderfully productive. Extremely hardy, and about two weeks earlier than the German Millet, growing four feet Single 1b 20c postpaid, 100 lbs \$9.50 in height.

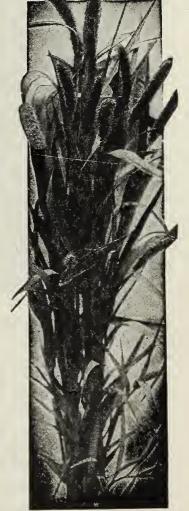
COMMON—A well-known variety growing from three to four feet high; has broad blades and strong stalks.

Single 1b 20c postpaid, 100 1bs \$9.50

#### CAHOON SEEDER SAVES TIME SAVES SEED

THE STANDARD BROADCAST SEED SOWER

GIVES AN EVEN STAND AND WILL LAST A LIFETIME SEE INDEX



Millet

### RAPE

DWARF ESSEX—One of the best forage plants, producing immense quantities of green feed when grass and other crops are dried up. Highly recommended by Professor Shaw and other eminent authorities. Has yielded ten tons of green forage per acre with a food value double that of green clover. Excellent pasture for all stock, and fine green feed for chickens. Thrives on all soils and is ready for use in six to eight weeks from time of sowing. Also valuable for plowing under. Sow same as turnips from May until September, or sow with grain. Use four pounds per acre in drills, eight pounds broadcast.

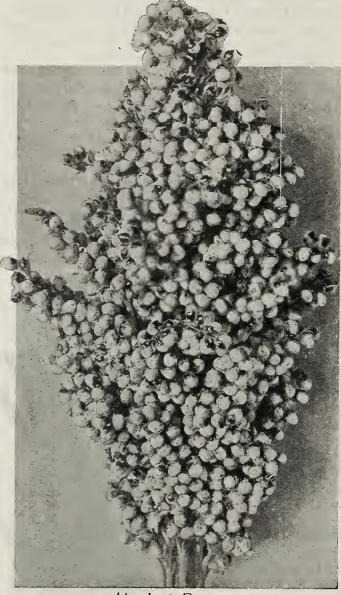
Price lb 25c postpaid. Not prepaid, 10 lbs \$1.60, 100 lbs \$15.00



### THE NON-SACCHARINE SORGHUMS

Wonderfully productive and of great value as a forage, ensilage or grain crop in dry sections

THE varieties here offered represent the best selections and are highly recommended. They are best drilled in—using 3 to 8 lbs. per acre, depending on variety and condition. Plant in the late Spring after the ground is warm. Cultivate often, throwing earth toward the plants.



Head of Feterita

FETERITA—This is the most recent of the nonsaccharine sorghums to command the attention of "dry farmers" on account of its wonderful yield and drouth resistant qualities, being 20 to 40 days earlier than Kaffir corn, and has given immense crops in the driest seasons without having received a drop of rain. Makes splendid fodder as well as giving a good grain yield. Try Feterita. Per 1b postpaid 25c, 100 lbs not prepaid \$12.00.

MILO MAIZE—This is one of the sorghums similar to Kaffir Corn. Grows erect, with thick, close-jointed stalk. Height 4 to 7 feet. Heads are very large, giving a heavy grain yield; is drought resistant, and succeeds on alkali soil. Plant late when ground is warm, 3 to 6 pounds per acre.

Per 1b postpaid 20c; 100 lbs not prepaid, \$9.00

EGYPTIAN CORN—Also Called Jerusalem Corn or Dhoura—One of the non-saccharine sorghums, requiring the same growing conditions. Succeeds well in dry sections. Produces small heads on side shoots up to eight on a stalk, the seed is larger than Kaffir corn. Yield is heavy. Makes fine chicken feed. Plant three pounds per acre.

WHITE per 1b postpaid 25c, 100 lbs not

prepaid \$13.50.

SUDAN GRASS—The great drouth resisting forage crop—Sudan Grass was introduced from Egypt in 1909 by the U. S. Dept. of Agriculture, and has given great promise of becoming a valuable addition to our forage grasses, especially in some sections. It is believed to be the original type of our cultivated sorghums. All stock relish it, and no harmful effects have followed where it has been fed. Under favorable conditions, it grows from 7 to 9 feet, having luxuriant foliage and small stems. While thriving under dry conditions, excessive moisture will not harm it but is easily damaged by frost. Where growing conditions are favorable the stubble makes excellent green pasturage. In the South three or four cuttings are not uncommon.

Price: 1 lb 40c postpaid; F. O. B. Spokane, 10 lbs \$2.90; 100 lbs \$28.00.

BROOM CORN—Dwarf Evergreen—Grows from 4 to 5 feet high and makes straw of finest quality, being almost, if not entirely, free from crooked brush. Per 1b postpaid 25c, 100 lbs not prepaid \$11.50.

If you milk 20 cows or more a

Sharples Mechanical Milker will pay for itself in a few months and leave you a handsome profit. Write for information.

### Sunflower

MAMMOTH RUSSIAN-The largest and most productive variety. It makes one of the very best of foods for poultry; a great egg producer.

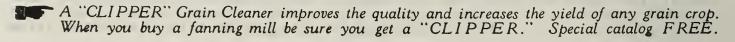
Per 1/4 lb 10c lb 30c postpaid; 10 lbs not prepaid \$2.00. Write for prices for feeding

### Sugar Cane or Sorghum

EARLY AMBER—A valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre. When fed down while

young it makes a rapid second growth.

Price postpaid per lb 25c; not prepaid
10 lbs \$1.50.

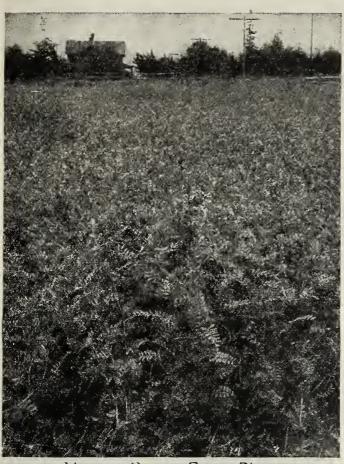




### FARM AND FIELD SEEDS—Continued

Prices Subject to Change Without Notice. See Page 42 Single Pound Prices Postpaid, for Larger Lots Add Postage at Zone Rates

### Vetches or Tares



Vetches-Greatest Forage Plant

### <u>Samananan mananan mananan manan mananan mananan mananan mananan mananan mananan mananan mananan mananan manana</u> Mulford Cultures For VETCH and Field Peas

These crops gather nitrogen from the air and enrich your soil. INOCULATE THE SEED BEFORE PLANTING to insure a good stand and a big yield.

Price, 1 acre, \$1.50; 5 acres, \$5.00

COMMON VETCH—(Vicia Sativa)—One of the best forage plants that can be grown on the Pacific Coast. Often called Fall Vetches. It furnishes an abundance of excellent feed, either green or cut and cured for hay. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Vetches weigh 70 pounds per bushel. Sow in the Fall or early Spring.

Per 1b postpaid 25c; write for prices in

quantity.

WHITE SPRING OR PEARL VETCH— White Pearl Vetch is coming into great favor and is being extensively used for Spring planting as splendid results can be had from sowings made as late as April. The yield being fully equal in every way to that obtainable from common vetch (vicia sativa) and of fully as great feeding value.

The advantage of later Spring planting makes White Pearl Vetch specially desirable and more sure to give returns than common Vetch under many planting conditions, and it has given better results on the light sandy cut-over lands of Washington and Idaho.

Per lb postpaid 35c; F. O. B. Spokane, 100 lbs \$22.00.

SAND, or Winter Vetches—(Vicia Villosa)– This variety thrives on poor, arid, sandy soils. It is sown either in the Fall or early Spring, and is generally mixed with rye, which serves to support the plants. It grows to a height of three or four feet, and can be cut twice; first, as soon as the bloom appears, and afterward for seed. The plant is perfectly hardy and makes a very nutritious food. Per 1b postpaid 50c; F. O. B. Spokane, 10 lbs \$3.65; 100 lbs \$35.00.

Large buyers write for quotations as the market is constantly changing.

### Field Peas

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog-feed and are quite fattening. Sow, if alone, 120 pounds to the acre; if with other grain, 60 pounds.

WHITE CANADIAN—A leading kind; seed almost white; a heavy cropper.

Per 1b postpaid 20c; F. O. B. Spokane, 100 1bs \$8.00.

BLUE PRUSSIAN—Very much like the above, except in color. This variety is largely sold dried for soup peas.

Per 1b postpaid 20c; F. O. B. Spokane, 100 lbs \$8.50.

GARVANCER PEA — (Coffee Berry) – valuable leguminus forage plant for dry land. Yields excellent crops of feed for stock.

The dried peas when browned and ground are used as a coffee substitute.

Per lb postpaid 35c; not prepaid 10 lbs \$2.00.

SWISS (or China) — A three-corned pea; excellent for cooking purposes. Vines small. Per lb postpaid 35c; 10 lbs not prepaid \$2.00.

### Lentils- French

The French Lentil excels as a food, is large, smooth, of a light even color and very attractive. It is also the heaviest yielding and most profitable variety to grow.

Lentils can be grown wherever peas or beans can be grown and are in big demand for export. Per 1b postpaid 35c; F. O. B. Spokane, 10 1bs \$2.50





HE production of fine seed oats has always been one of our leading specialties and we consider them to be the most profitable and satisfactory grain crop, being indispensable to stock and dairymen, and their use as a food is constantly increasing.

Planted in season, oats rarely fail, are easily and cheaply grown, and the valuable new varieties which we offer will double the number of bushels per acre that you would get from common seed oats, which means half the cost of production, or twice the profit.

They will mature in July from Spring sowing, giving quick returns and leaving the soil in good

condition for Fall planting.

Of what other grain crop can so much be said, and what other crop is more necessary and valu-

able to the dairy and stockman?

We offer select, recleaned, well-matured seed oats of standard varieties, suitable for this section and our own introductions, "ECLIPSE" and "CLIMAX," the earliest and most vigorous, heaviest yielding oats ever grown anywhere.

### DIAMOND HULLESS OATS

Many Varieties of Hulless Oats have been tried by the Department of Agriculture, but very

few yield well enough to pay the grower.

HULLESS OATS grow like ordinary oats with a branching head but thresh out clean, the grain being larger than the kernel of common oats and ready for rolling or milling just as they come from the cleaner, retaining all of their richness and flavor. You can make your own oatmeal on any gristmill and it will also cook quicker than other oatmeals and you will find it of superior excellence.

DIAMOND HULLESS OATS stool freely, stand up well and will thrive wherever oats can be grown. They are drouth resistant and ripen in about 100 days from seeding and have given 50 bushels per acre, weighing about 54 pounds to the measured bushel. Sow at the rate of 40 to 50 pounds to the acre.

Price lb postpaid 25c. 10 lbs F. O. B.

Spokane \$1.50; 100 lbs \$14.00. "SENATOR"—A New Garton Side Oat— Senator is highly recommended by the originators for its extreme earliness and great fertility—and is especially adapted to heavy land.

Seeded on good land this oat will do well, and where oats are liable to lodge SENATOR will stand up—has stiff straw—large grains and

fine color.

For exhibitions the large grains and big heads of SENATOR make a fine showing. Postpaid 4 lbs 50c. By freight or express ½ bushel \$1.25; bushel \$2.00; 100 lbs \$5.00.

#### WHICH IS YOUR CHOICE?

The difference in the cost of planting and harvesting an acre of common oats yielding 20 to 50 bushels, and of growing our record-breaking varieties that give from 80 to 135 bushels per acre is only the difference in cost of the seed (from 50c to \$1.00 per acre); in other words, it costs about as much to plant, care for and harvest oats that yield only half a crop as it does to reap a real harvest. THINK THIS OVER



"CLIMAX" always a winner.

OATS ARE A PROFITABLE CROP, easily grown and seldom fail. Prices are high and indications are that they will remain high for some time. Their value as a food makes them in big demand and our select seed will yield you a profitable crop.



### ECLIPSE—White Side Oat

"ECLIPSE"—Side Oat—Is a re-selection from our famous "Shadeland Challenge," and is living up to its name by "eclipsing" all competitors, including the parent stock, being equally as vigorous and early and the massive heads are uniformly larger and filled with plump, heavy thinhulled oats of finest milling quality.

The yield on light dry soil where our seed crops are grown runs from 75 to 85 bushels per acre and moist bottom land 125 bushels per acre is not uncommon.

"ECLIPSE" can be planted Fall or Spring, west of the mountains (Fall plantings should be made on well-drained soil), but in severe climates early Spring planting is best. Matures in 90 to 100 days, and can always be harvested before the Fall rains. Their beautiful bright color and plumpness commanding the top price in the market. Try this grand new side oat.

Price 4 lbs 50c postpaid. Freight or express, half bushel \$1.25; bushel \$2.00; 100 lbs \$5.00.

DON'T FORGET "Eclipse," 'Climax" and "Senator" Oats have won firsts every year for over 15 years at the Oregon State Fair and at every North Pacific Land Show—an unbroken record.

They will win for you and add to your profits.



Sheaf of Prize Winning "Eclipse" Oats

# CLIMAX-Tree Oat

"CLIMAX"—Tree Oat—For early Spring planting where seasons are short, in high, dry altitudes, and where quick growth and early maturity are demanded, "CLIMAX" will give you a bountiful harvest of the finest oats you ever saw. The white grains are uniformly large, plump and full with a very thin hull and are often borne 3 in a spikelet, which partly accounts for its wonderful yield.

In our trials "CLIMAX" has not been injured by severe

early freezing and later drought, but has stood up, green and vigorous, yielding one hundred bushels per acre on hill land when oat crops throughout the same section were stunted and dried up.

If you live West of the Cascade Mountains you can plant "Climax" Fall or Spring, any time the ground is fit, but where the climate is severe, Spring plantings are best.

Price postpaid 1 lb 20c, 4lbs 50c. Freight or express, ½ bushel \$1.25; bushel \$2.00; 100 lbs \$5.00.

To Know that you are getting the genuine "CLIMAX" store. The vitality and true type are maintained by intelligent, scientific care and selection. Prices are so low that you cannot afford to risk any other seed oat.

### STANDARD SEED OATS

Choice Recleaned Stock of the following varieties can always be supplied

WHITE SEED OATS—We always try to have a selected re-cleaned stock of No. 1 White Seed Oats which we can supply at market prices. Write for samples and prices on the quantity you require, or send in your order. You will always get full value for money sent. Price postpaid 1 lb 15c, write for quantity price.

GRAY WINTER-This Oat is planted extensively throughout the Northwest as a Fall or Winter Oat. Is well and favorably known, being a good yielder, and the Oats are large and plump.

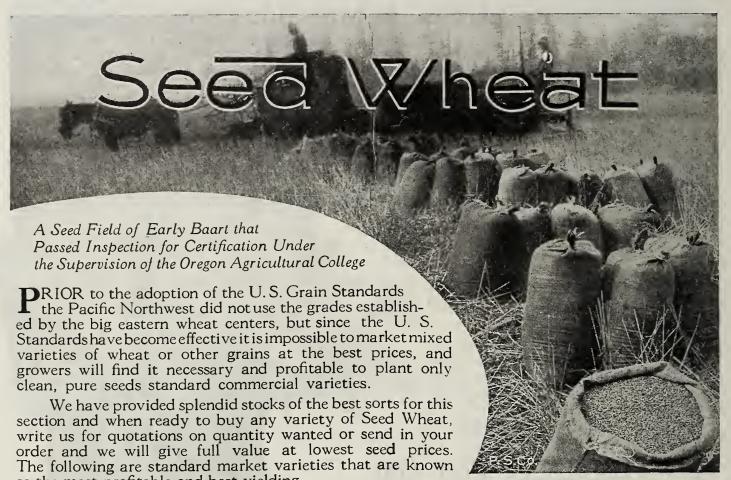
Price postpaid 1 lb 15c; write for quantity price.

SWEDISH RED-A comparatively new tree Oat from Sweden having a soft hull and fine soft straw which is ideal for hay. This is the Oat grown so extensively in Northern California and along the Southern Oregon Coast. Sow in Fall or Winter. Red Oats always bring a good price in the market.

Price postpaid 1 lb 15c; write for quantity

price.





### EARLY BAART—Bearded—Spring

as the most profitable and best yielding.

This splendid new Spring wheat is fully as early as Marquis, a better yielder and has a large white grain of finest milling quality. In the big wheat sections of Eastern Washington, Early Baart has matured three weeks ahead of Blue Stem, giving a bigger crop and its earliness insures protection against loss from the extreme heat and drouth occurring later. We offer a fine stock of certified seed from the field illustrated above.

Price 1b15c postpaid

#### BLUE STEM—Spring

The best known and one of the most profitable Spring varieties for the Northwest. Heads are large and well-filled, stools freely. Grain very hard. Although a Spring variety, can be planted as a Fall Wheat in sections where Winters are mild. The Blue Stem of the Pacific Coast has a white grain and smooth chaff, quite unlike the Velvet Chaff and Red grains of the states East of the Rockies. Better results are had with this Wheat East of the Cascade Mountains, as it has a tendency to lodge in the moist sections on the Coast.

Price 1b 15c postpaid

### MARQUIS—Spring

Marquis Wheat was produced by a cross of Red Fife and Hard Calcutta. It differs from the parent stock, Red Fife, inasmuch as it has a heavier head, shorter straw, and the grain is a little darker, more flinty and very heavy, weighing about 65 pounds to the measured bushel. Heads are beardless, chaff smooth.

Marquis was awarded the prize at the New York Agricultural Show, as the best wheat grown on the continents of North or South America. It is early heavy yielding, and of splendid milling and baking quality.

Price lb 15c postpaid

#### LITTLE CLUB—Spring

This well-known variety has stiff, straw, typical club head and does not shatter easily. Is a good grower and yields well. Our stock is exexceptionally good, being selected from a heavy yielding strain.

Price 1b 15c postpaid

### TURKEY RED-Winter Kharkov

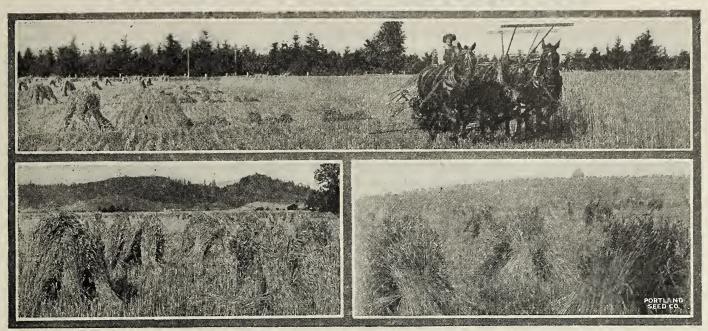
A medium hard red bearded variety; a heavy yielder and does not shatter out easily. Is very hardy, doing well in cold climates, but in moist sections has a tendency to lodge badly. The grain is hard and of good quality. A good Wheat for the dry sections East of the Cascades.

Price 1b 15c postpaid

A "CLIPPER" Grain Cleaner improves the quality and increases the yield of any grain crop. When you buy a fanning mill BE SURE YOU GET A "CLIPPER." The mill with the "VERTICAL BLAST."

Special Catalog and Full Information on Request.

### SEED WHEAT—Continued



Some of our fields of Seed Wheat, 1919 crop

### FORTY FOLD-Winter

Forty Fold is referred to as "Gold Coin" in some sections. Is quite early, seed resembling Blue Stem. A favorite Winter variety in many localities, and in good demand for milling.

Price lb 15c postp'd

If your fall grain winter killed or failed to make a good stand, harrow and sow to spring wheat —Marquis or Early Baart.

#### RED CHAFF—Winter

Beardless with red chaff and white kernels. Popular variety for western Oregon and Washington. This variety is often confused with Foise.

Price lb 15c postp'd

#### RED RUSSIAN-Winter

This is extensively grown in the Palouse country of Eastern Washington, where conditions are favorable. It grows vigorously, maturing late, and gives a heavy yield of both grain and foliage. It is a superior variety for choking out weeds, growing close and luxuriantly.

Price lb 15c postp'd

TREAT YOUR SEED WHEAT—The Formaldehyde treatment is recognized as the safest, most efficient method for prevention of smut and fungus in wheat. Use one pint to 40 gallons of water, preferably in an open vat where the grain can be immersed for 10 to 20 minutes. Be sure to skim off any floating smut balls, defective grains, etc. Pt 65c, qt \$1.15, gal \$3.80. Cannot mail

### SEED RYE

**Spring Rye** is a very important and profitable crop useful for replacing winter grain that has failed, or planted as a soiling or grain crop is always dependable. Should be sown at the same time as other Spring grains using 90 to 120 lbs. per acre.

Winter Rye is hardy and can be grown on a wide range of soils and makes splendid pasture for late Fall and early Spring after which it will develop a good grain crop or can be turned under for soiling.

BEARDLESS SPRING RYE—This splendid variety is extremely hardy, yields heavily and is preferred for stock feeding as the small fine beards (about an inch long) mostly drop off in handling. Plant Fall or Spring. Pound 15c postp'd, not prep'd 100 lbs \$5.50

FALL RYE—We offer select, recleaned seed.

SPRING RYE—Bearded—We offer a fine stock of true Spring Rye that can be planted in this section any time after the ground can be worked. Per lb15c postp'd, not prep'd 100 lbs \$5.25. Write for prices in larger lots.

Per 1b 15c postpaid, 100 lbs not prepaid \$5.00. Write for prices on larger lots

### SPELTZ or Emmer

EMMER—(Triticum Dicoccum)—Often Mistakenly Listed as Speltz—Similar to barley in growth, but produces two grains in a spikelet. A comparatively new and profitable crop yielding 50 to 100 bushels of grain, or four to six tons good hay per acre. Thrives well on poor soil, and dry weather seems not to affect it. After threshing, the straw makes good feed. Sow in Spring at rate of 75 to 100 pounds per acre. Emmer is often listed and referred to as "Speltz." We offer choice, recleaned seed of the true variety.

Price lb 15c postpaid, 100 lbs not prepaid \$5.50



# DIAMOND FERTILIZERS

The Base is Bone Meal and Tankage—No Cheap Filler. Every Pound Is Good Fertilizer



IAMOND QUALITY Fertilizers are complete fertilizers of the highest grade and concentration, no inferior ingredients or cheap fillers are used in their preparation, Bone Meal and Tankage forming the base to which is added the necessary Potash. Nitrogen and Phosphoric Acid. Each package is marked plainly, showing the percentage of available plant food.

SPECIAL FERTILIZER BOOKLET giving complete details and prices of the different fertilizers which we can supply, together with full information for their application, will be sent on request. This booklet is instructive, reliable and of great value to all interested in fertilizers.

### FERTILIZING ELEMENTS

#### **NITROGEN**

**Nitrogen** is necessary for the production of plant life, and without it there can be no plant growth; it is a powerful stimulant, and, when present in excess, causes a rapid and excessive, but watery and unnatural growth, which is made at the expense of fruitfulness. Too much nitrogen on wheat shows its ill-effects in such a rank growth of the plant, and later, of straw, as to be unable to sustain its own weight until the grain is matured; on hops, by great growth of plant and but few blossoms, which mature fewer burrs; on fruit trees by a rapid and sappy growth which produces little fruit.

Leguminous crops (such as clover, beans, peas, etc.) draw their supply of nitrogen principally from the air, and, therefore, an artificial application of nitrogen fertilizer to this class of plants is rarely needed.

### PHOSPHORIC ACID

Phosphorus in the form of phosphoric acid is necessary for the healthy growth of plants, and is essential to the best production of straw and seed. Its deficiency in a soil is shown by the want of vigor in its plant life. To produce its full effect, however, it must be used on a soil already rich in nitrogen, or to be associated with nitrogen in the fertilizer; otherwise it will produce a tall, pale and spindling growth of straw with very small increase of grain or fruit. It has a marked effect in hastening maturity and should be used freely on all crops which should be ripened early and is especially useful for increasing all crops of seed grain.

Acid Phosphate contains lime, which is valuable on such soils as would be improved by the use of land plaster, and if prepared from bone also contains nitrogen, which gives it an additional value

#### **H2ATO**

**Potash** is found in greater or less quantity in all soils. It is essential to the development and growth of the plant. In combination with Nitrogen and Phosphoric Acid, Potash contributes to the full and perfect development of plants. Excess of Potash does not show any special effect on the plant, but a weakened growth, a lack of fruitfulness, and especially a slow and unsatisfactory development of starch and woody fiber, **follows its deficiency in the soil.** 

#### LIME

Lime is not a direct fertilizer but improves the condition of swampy and peaty soils, which consists largely of organic matter and are consequently rich in nitrogen, but this nitrogen is unavailable, owing to the slow decay of the organic matter in some of these soils, so lime furnishes the conditions necessary for a more rapid decay. Such soils sometimes need phosphoric acid and potash as well as lime.

Lime also performs a valuable office in the sweetening of soils. When a soil betrays excess of acid, lime is needed. It also makes heavy clays light and more porous, and renders the plant-food in them as well as in muck soil more available. Quick-lime, marl and ground oyster shells are the more common sources of lime. To produce the results above noted lime from stone or oyster shells is more effective.

A 100-Pound Bag of High Grade Commercial Fertilizer will contain more soluble and available plant food than 4,000 pounds (two tons) of stable manure of average quality. How much easier and cleaner to handle one 100-pound bag than 2 tons of manure, and there are no weed seeds to worry over. Always remember that the commercial value depends upon the available or soluble contents of a mixed fertilizer, and the price is governed thereby. The figures giving the soluble, insoluble, totals, etc., unless understood, are often misleading, apparently giving a greater percentage of the various elements than are actually available.

Note AS FERTILIZERS ARE SOLD ON A SMALL MARGIN, PRICES ARE SUBJECT TO MARKET CHANGES, but you will always get FULL VALUE for your money



### DIAMOND FERTILIZERS—Continued

Applied in quantities of 1,000 lbs. to a ton per acre, our fertilizers, with intelligent culture will sustain and gradually improve the soil and increase the yield and quality of the product, even though the crop be entirely removed and no other manuring done. The roots, vines, stubble and whatever of weeds or waste there is, all assist in providing the necessary humus. A greater amount is often used to advantage by market gardeners. Complete instructions will be found in our Fertilizer Booklet, sent free. If there is any special information you require, write us; your inquiries will have our prompt and careful attention and our experience may help you.

#### GENERAL AND VEGETABLE

An all-round fertilizer, which can be used on any crop, but is especially adapted for grain and general farm crops. Analysis: Nitrogen, 2 per cent; phosphoric acid, 8.25 per cent; potash, .60 per cent.

10 lbs 50c, 100 lbs \$3.50, per ton \$68.00

### FRUIT AND ONION FERTILIZER

This fertilizer is also used for blackberries, raspberries, etc. We sell large quantities for growing the famous Hood River strawberries. Analysis: Nitrogen, 2½ per cent; phosphoric acid, 8.25 per cent; potash, 1.30 per cent.

10 lbs 50c, 100 lbs \$3.60, ton \$70.00

### ODORLESS LAWN AND ROSE

Our Diamond Lawn Fertilizer promotes a vigorous, healthy growth, giving the desired dark rich green appearance; can be used at the time the seed is planted and later as a top dressing. One hundred pounds is sufficient for an ordinary city lot, and is far more effective and less objectionable than stable manure. Remember, it contains no weed seeds. When used as a top dressing it is best to make several light applications about two weeks apart.

10 lbs 60c, 25 lbs \$1.25, 50-lb sack \$2.15, 100 lbs \$4.00.

#### BONE MEAL

Fine ground, is one of the best fertilizers. This is the only grade of Bone Meal, and is reduced by improved machinery to an even fineness-nothing is added. This is a very valuable enricher of the soil, and one of the most economical at present prices.

5 lbs 30c, 10 lbs 50c, 100 lbs \$3.15, ton \$60.00.

#### SHEEP GUANO

The best natural manure, dried and ground. Concentrated, soluble; quick in action, and free from weed seed. Splendid for vegetables; fine for roses and flowers. Excellent for lawns.

10 lbs 40c, 25 lbs 65c, 50 lbs \$1.10, 100 lbs \$1.85, ton \$35.00.

### LAND PLASTER, OR GYPSUM

Made from pure gypsum, free from clay or other foreign matter. This is especially valuable for clover crops.

10 lbs 25c, 100-lb sack \$1.25, ton \$15.00

### LIME

Lime Rock—Fine Ground. This is the form of lime recommended by the Agricultural Department. Use 1/2 to 1 ton per acre.

100 lbs \$1.25, ton \$16.00

#### **SUPERPHOSPHATE**

This is a concentrated form of phosphoric acid, and it is actually the cheapest form in which to buy phosphoric acid. Our present stock contains 18 to 20 per cent available phosphoric acid.

Per 1b 5c, 100 1bs \$2.40, ton \$43.00

### **TANKAGE**

Ground meat scraps and bone, dessicated in a vacuum, is very rich in phosphoric acid and nitrogen. Per 100-lb sack \$3.25, ton \$63.00

#### NITRATE OF SODA

For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crop.
1 lb 10c, 100 lbs \$4.65, ton \$88.00

### FISH GUANO

Fish cooked, dried and ground is a strong fertilizer, rich in nitrogen, carrying considerable phosphorus and used largely by vegetable growers. We do not recommend this for lawns or city use, as odor is objectionable.

100 lbs \$5.90, ton \$115.00



### DIAMOND PLANT FOOD

For Ferns, Palms and House Plants. Clean, Odorless, **Highly Concentrated** 

A complete, highly concentrated, powerful fertilizer, clean and odor-less, wonderfully invigorating to all plants; producing luxuriant foliage and larger and more brilliant flowers.

A 400 package will feed a dozen large plants a whole year. Special

instructions on each package.

Price: ½ lb pkg 25c, by mail 35c; 1 lb pkg 40c, by mail 50c

Our fertilizers contain generous supplies of vital plant food. Being highly concentrated and readily available, small quantities only are needed for the production of the finest crops. THEY ARE QUICK IN ACTION, RELIABLE AND ECONOMICAL.



# BOOKS

Books are the inspiration, the authoritative guide, that enables you to command success, and you should have the standard references on the subjects in which you are interested.

Note: C indicates cloth; P, paper cover. All books postpaid at following prices:

Binding F	rice	Binding	Price
Agriculture, The Principles of, Bailey, 336 pages, 5x7½ in	1.60	Fruit Garden, Barry's, 516 pages, 5x7 1/2 in	\$2.10
Agriculture, Principles of, through the school and home gardens,		Fruit Grower, The Practical, Maynard, 128 pages, 5x7 in	.85
Stebbin	I . 45	Fruit Growing, The Principles of, Bailey, 516 pages, 5x7½ in., new edi-	
Coburn, 161 pages, 5x7½ in	.85	tionC	2.00
Alfalfa Farming in America, Wing,	2.10	Fruit Harvesting, Storing, Marketing, Waugh, 224 pages, 5x7½ inC	1.70
Apple Culture, Field Notes on, Bailey, 88 pages, 5x7½ in	. 90	Fungi and Fungicides, Weed, 228 pages, 5x7½ in	. 50
Apple Orchard, The American, Waugh, 214 pages, 5x7½ in	I . 70	Gardening for Pleasure, Henderson, 404 pages, 5x7 1/4 in	1.85
Asparagus, Hexamer, 166 pages, 5x7½ in	.85	Gardening for Young and Old, Harris, 191 pages, 5x7½ in	I . 35
Basket Making with Raffia, Morse,		Garden Making, Bailey, 417 pages,	
	2.5	oarden waking, Daney, 41/ pages,	
30 pages, 5x7 in	. 25	5x7½ in	1.75
Belgian Hare GuideP	. 25	Grape Culturist, The, Fuller, 282 pages,	
Blackberry and Raspberry Culture,		5x7 ½ in	1.85
Littooy, 48 pages, 3½x6 in., new edi-		Grasses and How to Grow Them,	
tionP	. 40	Shaw, 453 pages, $5x7\frac{1}{2}$ in	1.60
Bush Fruits, Card, 537 pages, 5x7½		Grasses and Forage Plants, Flint, 398	
in	1.85	pages, 5½x8 in	2.00
Cabbages and Cauliflowers, Broccoli,		Greenhouse Construction, Taft, 210	
Etc., Gregory, 93 pages, $5x7\frac{1}{2}$ inP	. 45	pages, 5x7½ in	2.10
	•4)	Cross bases Manadaus T. C.	2.10
Cabbages and Cauliflower, Etc., Allen,	0.0	Greenhouse Management, Taft, 382	
125 pages, 5x7 in	.80	pages, 5x7 ½ in	2.10
Carnation Culture, American, Lam-		Hedges, Windbreaks, Etc., Powell, 140	
, 1 0 . ,	2.00	pages, $5x7\frac{1}{2}$ in	.80
Celery Culture, Beattie, 143 pages, 5x7½ in	. 85	Homes for Home Builders, King, 251 pages, 5x7½ in	1.60
Corn Crops, The, A Discussion of Maize, Kaffirs and Sorghums,		How to Choose a Farm, Hunt, 412 pages, 5½x7½ in	2.00
	2.00	Injurious Insects of the Farm and	
Cranberry Culture, White, 131 pages, 5x7½ in	1.35	Garden, Treat, 296 pages, 5x7½ inC Insects Injurious to Fruits, Saunders,	1.60
Daffodils-Narcissus, Kirby, 235 pages, 5x7½ in	I.35	436 pages, 5x8 in	2.60
Draining for Profit and Health, War-		and Orchard, Stewart, 276 pages,	
ing, 252 pages, $5x7\frac{1}{2}$ in	1.60	5x7½ in	1.60
Farm Appliances, Martin, 192 pages,		Land Draining, Miles, 199 pages,	
5x7 in	.80	5x7½ in	1.60
Farm Book, New American, Allen, 540		Landscape Beautiful, The, Waugh, 336	
• / •	2.10		2.60
Farmstead, The, Roberts, 350 pages,		pages, 6x8½ inC	2.00
	I.50	Landscape Gardening, Waugh, 152	
Farm Conveniences, 256 pages, 5x7½	. , , ,	pages, $5x7\frac{1}{2}$ in., new edition	1.10
	I.35	Lawns and How to Make Them,	
Farm Grasses of the United States,	1.33	Barron, 174 pages, 5x7½ in	1.30
0 44	I . 70	Manure, The Bommer Method of	
Fertilizers, Gregory, 137 pages, 5½x7½		Making, 86 pages, 6x9 inP	. 45
inP	. 65	Market Gardening and Farm Notes,	
First Book of Farming, The, Goodrich,		Landreth, 215 pages, 5x7½ inC	1.35
	1.35	Money in the Garden, Quinn, 268	
First Principles of Soil Fertility,		pages, $5x7\frac{1}{2}$ in	1.35
Vivian, 265 pages, 5x7½ in	1.35	Mushroom Culture and Pure Culture	
	1.85	Spawn, 33 pages, 5x8 inP	-35



# NEW BOOKS—Continued

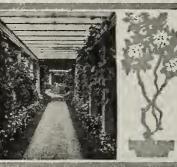
Note: C, indicates cloth; P, paper cover.	All books postpaid at following prices:
Binding Price	Binding Price
Mushrooms, How to Grow Them,	Rose Growing for Amateurs, H. H.
Falconer, 160 pages, 5x7 ½ in C \$1.60	Thomas, 148 pages, 5x7 ½ in C \$0.70
Nursery Book, The, Bailey, 365 pages,	Soils, The Physical Properties of,
5x7½ in	McCall, 100 pages, $5x7\frac{1}{2}$
5x7½ in	pages, 5x7½ in
Onions, Jordan, 95 pages, 5x8 in	Strawberry Culture, The A. B. C. of,
Onion Book, The, Prize Essays and	Terry & Root, 235 pages, 5x6 inP .55
Other Papers, 36 pages, 7x10 inP .45	Strawberry Culturist, The Illustrated,
Onion Culture, New, Greiner, 115 pages, 5x7½ in	Fuller, 59 pages, 5x7 in
Peach Culture, Fulton, 204 pages,	5x7½ in
Peach Culture, Fulton, 204 pages, 5x7½ in	Tomato Culture, Littooy, 24 pages,
Play and Profit in My Garden, Roe,	5x73/4 in
349 pages, $5x7\frac{1}{2}$ in	fomato Culture, Tracy, 150 pages,
pages, 4½x6 in., new editionP65	5x7½ in
Potato, The, Frazer, 185 pages, 5x7½ in.C 1.10	5x7½ in
Rose, On The, Parsons, 207 pages,	Violet Culture, Commercial, Gallo-
5x7½ in	way, 230 pages, 5x7 in
Roses and How to Grow Them, 189	Water Lilies and How to Grow Them,
pages, 5x7½ in	Conard & Hus, 228 pages, 5x7½ inC 1.35
POULTRY AND	DICEON BOOKS
Note: C indicates cloth; P, paper cover.	All books postpaid at following prices:
Binding Price	Binding Price
American Standard of Perfection, 368	Money in Broilers and Squabs, Boyer,
pages, 5½x8 in	148 pages, 6x9 in
Artificial Incubating and Brooding,	Orpington, The, 80 pages
new edition, 110 pages, 9x11½ inP 1.00 Asiatics, The, 96 pages, 9x11½ inP .50	edition, 160 pages
Bantam Fowl, The, McGrew, 68 pages,	Poultry Houses and Fixtures, new edi-
ox11½ in	tion, 110 pagesP 1.00
Call of the Hen, The, Walter Hogan,	Poultry Remedies, Reliable, 86 pages,
138 pages	5½x8½ in
Duck Culture, Rankin, new editionP75	Successful Poultry Keeping, 176 pages,
Ducks and Geese, 104 pages, 9x11 ½ in P .75	9x111/4 in
Eggs and Egg Farms, 96 pages, 9x11 1/2	Two Hundred Eggs a Year Per Hen
inP .50	and How to Get Them, Warren, 96
Egg Record and Account BookP .25 Five Hundred Questions and An-	pages, 6x9 in
swers, Darrow, 48 pages, 6x9 inP .30	inP .75
Incubating and Brooding, Artificial,	Wyandottes, All Varieties, new edi-
96 pages, 9x11½P 1.00	tion, 160 pagesP 1.00
Leghorns, The, All Varieties, new edi-	Pigeon Book. The Feather's Practi-
tion, 9x11½ in., 144 pages	cal, Long, 168 pages, 5x7½ inP .55
DAIRY AND S'	TOCK BOOKS
	· · · · · · · · · · · · · · · · · · ·
Barn Plans and Outbuildings, 385	Feeding and Management of Sheep, Shaw, 467 pages\$2.10
pages, 5x7½	Shaw, 467 pages\$2.10 Feeds and Feeding, Henry & Morrison,
pages, 5x7½	691 pages 2.25
pages, 5x7½	Forage Crops Other Than Grasses,
5x7½	Shaw, 287 pages, 5½x7¼
5x7½	
5x7½	pages, 5½x8½
Farm and Dairy, Sheldon, 158 pages,	Frandsen & Markham, 304 pages 2.10
5X7 ½	Practice of Cheese Making, Van Slyke
Farm Stock, Burkett, 358 pages, 5x8C 1.70 Farmers' Veterinarian, Burkett, 275	& Publow, 487 pages 1.85
pages	Soiling Crops and the Silo, Shaw, 366 pages, 5x7½
Feeding and Management of Live	Swine Husbandry, Coburn, 300 pages. 1.70
Stock. Shaw, on pages, 5½x8½	Swine in America. Wing 600 pages 2 60







# "DIAMOND QUALITY" FLOWER SEEDS



**F**LOWERING plants are enjoyed by everyone, and cut flowers for home use or flowering plants for garden display can easily be grown; their care is a pleasant and healthful diversion, and for the small expense of time and money nothing will return so much pleasure and profit. If you have any planting problems, if you wish to produce special effects or work out color schemes, write us; we will be glad to assist you in every way possible, and our experience is at your service.

**CULTURE**—Cultural directions are printed on the back of nearly all packets. Flowers usually succeed best in a sandy loam, made rich with well-rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

After the plants are up they require plenty of air and moisture, but they must not be too wet or they will "damp off." When large enough to transplant, put them in boxes or pots, giving them plenty of room, then when the ground is warm enough to put them outside, each plant will have a nice clump of roots-But if they are left in the seed and are close together, they will be weak and will not thrive.

A common mistake with flower, as well as other seeds, is planting too deep. A good rule is to plant the same depth as the thickness of the seed, and always press the soil down firmly, as this helps the seed to secure a firm hold and also retains the moisture.

A hotbed or cold frame is very convenient to start seeds in, as the temperature and moisture can be so regulated as to make their germination and rapid growth more certain. Most seeds do well if sown in boxes in a sunny window in the house.

Plants are usually ready to be transplanted when they have made a growth of two inches.

### INFORMATION THAT WILL AID IN SELECTION OF FLOWERS

Annuals bloom and ripen the first year and then they perish. Many annuals in warm climates, or when taken in, or protected during Winter, become perennial, with short lives.

Hardy Annuals, Biennials and Perennials can be sown in open ground early in the Spring if desired, and Hardy Biennials and Perennials do not require any protection in Winter.

Perennials flower several years in succession.

Annuals bloom and ripen the first year and then they perish. Many annuals in warm climates, and are in their perfection the second year.

Half-Hardy Annuals, Biennials and Perennials should not be sown in open ground until settled warm weather, though they can be sown in the house, if desired, early, and afterwards transplanted. The two latter need to be protected in Winter, or carried over until Spring in cold frames or greenhouses.

Flower Seeds that are easy to grow under the proper conditions of heat and moisture will often fail when these conditions cannot be controlled.

The following seeds require special attention and equipment for best results:

Asparagus Plumosus

Calceolaria

Cyclamen

Asparagus Sprengerii Begonia Canna Cineraria

Heliotrope Gentiana

Smilax and Primroses except Evening Primrose, Oenothera

For the convenience of our customers we have grouped annuals together—separating them from the biennials and perennials, and have arranged a classified list giving color and habit of flowers listed, to aid in selections for special effects. See Page 79.

# "DIAMOND SWEET PEAS

Sweet Peas Head the list as our most beautiful and popular annual

OUR Famous "Diamond Quality" Sweet Peas are selected with critical care and we offer the best productions of the foremost growers, including the latest, most valuable novelties. We conduct careful trials, and ,for quality and assortment of varieties, our stocks are unsurpassed. Although we list only those we consider best, we can supply any variety in commerce, and special orders will receive careful attention.

CULTURE-First and most important, plant as early in the Spring as the conditions will permit. Seeds should be sown at the rate of one ounce to fifteen feet. Make a trench about three to four inches deep, planting the seeds in the bottom about two inches deep, pressing the soil down firmly. After the plants are well up, thin to four or five inches apart, and draw the soil around them until the trench is filled above the level. This gives a depth to the roots, preserving the moisture. Keep the ground well worked and water if needed, an occasional thorough soaking being better than a daily sprinkling. Keep the flowers cut close and a pruning of the tips of the vines will also aid in prolonging the season of bloom and insuring better flowers.



### EARLY FLOWERING SWEET PEAS

LONG-SEASON SPENCERS

A Cross of Early GRANDIFLORA and SPENCERS—of fixed color and type

Six weeks earlier than the Spencers, these new early-flowering varieties begin to bloom 106 days from planting in the open ground and flower through a long season—about 4 months.

New Early-Flowering Spencers are fixed as to type and color and should not be confused with the Christmas or Winter-Flowering varieties generally listed.

EARLY LIBERTY—New brilliant red—in the words of the introducer—"Nothing yet offered has approached this deep sun proof crimson or blood red—a most welcome addition to this class—be sure to try a packet of Liberty."

Pkts each 15c

EARLY HEATHER BELL—Very large graceful flower of finest Spencers form, borne 3 and 4 on long, strong stems. Color is a lovely, rich mauve—changing when cut to a beautiful mauve lavender. Valuable as a cut flower and profitable variety for florists.

Pkts each 15c

EARLY SNOW FLAKE—The best of the "Early White Seeded Spencers"—a beautiful white for commercial growers. The flowers are very large, beautifully waved and borne in greatest profusion on long stems.

Pkts each 15c

**EARLY MELODY**—A lovely rose pink on white having the dainty coloring and general appearance of "Countess Spencer," very floriferous, the blooms being mostly fours on fine stems.

Pkts each 15c

EARLY SPRING MAID—Color a light pink on a cream ground; a flower of great beauty and refinement; the large blossoms, 4 on a stem, make this a most attractive and desirable variety.

Pkts each 15c

Remember-Early plantings make finest flowers and more of them—they also have longer stems and bloom throughout a longer season



# SWEET PEAS

Spencer Varieties

A splendid collection, including the best of the recent novelties.

The New "Spencer" type has lovely waved and fluted flowers of gigantic size, and in exquisite colorings, length of stem, and lasting qualities are much superior to the older types. For culture see page 63.



King Manoel

Giving COLOR, HABIT and Blooming Period of the Flowers we list. See Page 79

### ORANGE AND SALMON

Barbara—A beautiful shade of orange salmon, the brilliancy and delicacy of the coloring being enhanced by planting in partial shade. A true Spencer of lovely form, very valuable as a cut flower.

Pkt 10c, oz 50c

Illuminator—A brilliant orange-salmon ground, illuminated with bright cerise pink; a rare and wonderful color combination of great beauty. First class certificate. Pkt 10c oz 50c **Thomas Stevenson**—The most brilliant orange scarlet, standard of deeper color than the wings. The flowers are of the finest Spencer form. Pkt 10c, oz 60c

### RED AND MAROON

Black Knight—Rich dark wine red with velvety black sheen. Pkt 10c, oz 50c

Vermilion Brilliant—An intense pure scarlet self-color or rare beauty and substance. Absolutely sun-proof. A stocky, vigorous grower, profuse bloomer, the long, strong stems carry Pkt 10c, oz 50c four perfect flowers.

King Edward-Bright crimson scarlet, largest size, wavy standard; drooping wings, long stems; one of the finest reds. Pkt 10c, oz 50c

King Manoel—Large, full, wavy blossoms of dark brilliant maroon. A bold and attractive flower of great beauty. Pkt 10c, oz 50c

### LAVENDER AND BLUE

Asta Ohn—Lavender, suffused with mauve; of perfect form, largest size, 4 blossoms on long, strong stems; very vigorous. Pkt 10c, oz 50c

Flora Norton—Bright blue with just a tinge of purple. Fine Spencer form. Pkt 10c, oz 50c

Royal Purple—A rare new shade in Sweet Peas, rich purple, almost true royal, a color that does not exist in Grandiflora type. Pkt 10c, oz 50c Florence Nightingale—Immense, bold erect flowers of soft, rich lavender with very delicate suffusion of rose; a beautiful, self-colored flower, frilled and waved. Bears four blooms Pkt 10c, oz 50c on extra long stems.

Wedgewood—A true self—being a beautiful Wedgewood blue; is larger, more vigorous, blooms more freely and is entirely free from purple shading. Pkt 10c, oz 50c

White Spencer—A pure white flower of enormous size beautifully crinkled and fluted, of Pkt 10c, oz 50c splendid substance.

King White—The newest and most magnificent white; of perfect Spencer type; the immense petals gracefully frilled-are a pure white of wonderful substance. Pkt 10c, oz 50c

Mulford Cultures FOR SWEET PEAS. Makes larger flowers and prolongs the blooming period. Easily applied before planting. Price 25c and 50c postpaid



### SPENCER SWEET PEAS—Continued

### PINK AND CREAM

Countess Spencer—Pink—The first Sweet Pea of the Spencer type. Flowers extremely large, beautifully expanded, crumpled and waved. Color silvery white, suffused and tinted with soft shell pink, deeper at the outer edges.

Pkt 10c, oz 50c

"Margaret Atlee"-The most perfect of the Duplex type yet produced. Color is a warm salmon pink suffused over a cream ground The cream deepens into a bright buff at base of standard and wings. Flowers are of very large size and are borne almost uniformly four on a stem.

Pkt 10c, oz 50c

Mrs. Routzahn—Color, soft straw tinted with blush pink, shading to rose and apricot at edges, with distinct rose margin; of immense size; one of finest Spencers.

Pkt 10c, oz 50c.

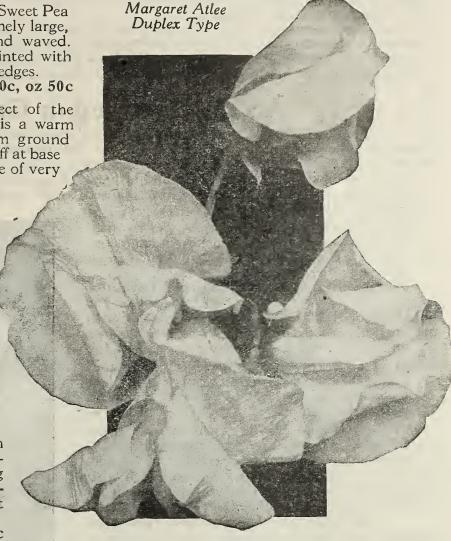
Primrose Spencer—Color, a true primrose. Very vigorous, free-flowering, excels in beauty of form, length of stem and keeping Pkt 10c, oz 50c qualities.

### VARIEGATED

Dainty—A pure, glistening white with distinct margining of bright rose-pink; comes four blossoms on long stems. Dainty is all its name implies and is the best picotee edge yet produced; very large and wavy.

Pkt 10c, oz 50c

America—The largest and finest of its class. Pure sating white, striped and splashed brilliant crimson; 4 flowers of perfect form borne on long stems. Pkt 10c, oz 50c



Senator-A combination of deep claret and chocolate, striped and flaked on a light heliotrope ground. The coloring, though dark, is Pkt 10c, oz 50c brilliant and attractive.

### SWEET PEAS IN MIXTURE

### SUPERB SPENCERS

Superb Mixture—True Spencers Only — A splendid mixture, carefully proportioned and blended to produce pleasing and harmonious combinations of color. These are not seed-lings, but carefully selected named varieties that retain all their purity and brilliance of color.

Pkt 10c, oz 30c, 1/4 lb 85c, lb \$2.50

#### DIAMOND

Diamond Mixture—The most perfect blend of the finest named varieties it is possible to produce. This mixture contains many famous novelties the best of Grandifloras, also standard Spencer types, and will delight the most

Sold in 1-oz sealed pkts only at 15c each, 2 for 25c, 12 for \$1.25, not sold in bulk.

### GRANDIFLORA MIXED

These old-time favorites while not as large as Spencers are very free flowering and bloom through a long season, making a splendid display. Our mixture is made up of select named varieties in the Pkt 10c, oz 15c, 1/4 lb 40c, lb \$1.50 finest colors and shades.

We import HYACINTHS, TULIPS, NARCISSI and other HOLLAND BULBS for FALL PLANTING—Direct from the foremost Holland Growers. For complete list see our Nursery Catalog ready in September. Mailed free on request.



# ANNUAL FLOWER SEEDS

And Those Generally Used as Such

HARMING effects for every planting purpose can be had at very little expense by the proper planting of Annual Flowers, Vines and Foliage Plant. For classified list showing what is best

for various purposes, see page 79.

Annuals bloom the first year, and many of our most popular flowers come in this class-under favorable conditions a few varieties will continue to live longer than one season, but as a rule they perish, and in planting for permanent effects the perennial plants are generally selected, the annuals being used for the first one or two seasons until the perennials become established.

## ASTERS—Oregon Grown Seed

Asters grow to perfection in our mild, cool climate and splendid strains of the best-known sorts have been developed by careful selection. As Fall bloomers for garden or cut flowers, asters are most satisfactory, and the varieties we offer being acclimated can be depended on for best results, rivaling the chrysanthemum in size and beauty. Asters require a rich, moist soil. Seed should be sown inside in March, and plants transplanted to the open ground when the weather is settled.

"CREGO GIANT" ASTER — The "Giant Crego" is distinct in every way, and its magnificent flowers, often 6 inches in diameter, have rare beauty of form and brilliant coloring,

are very vigorous and free flowering. White, Shell Pink, Rose, Purple, Lavender Pkt 15c, 1/8 oz 75c

PACIFIC BEAUTY—A rich true lavender, with big fluffy blooms on strong stems; free bloomer and great keeping qualities.

GIANT CRIMSON—A new velvety crimson of branching habit, upright grower. Excellent for garden decoration and cutting. Shows up Pkt 10c well under artificial light.

ASTER-MUM — A selection from "Giant Comet." Of immense size, resembling chrysanthemums in form, hence the name "Astersanthemums in form, hence the name "Astermum." Plants are about two feet high with good stems. A little earlier than "Crego." Three colors. White, Rose, Purple.

Pkt 10c; three, one of each color, 25c

QUEEN OF THE MARKET—Best early Aster, of graceful spreading habit.

Light Pink White, Dark Blue, Light Blue, Mixed. Pkt 10c, 1/4 oz 50c

"MIKADO" OR ROCHESTER—A favorite with florists. Has very long, narrow petals, toward the center they cross and recross in splendid confusion, strong branching habit. Lavender-Pink. Pkt 10c, 1/8 oz 50c

SEMPLE'S LATE BRANCHING - Flowers large, beautiful, double and borne on long stems. White, Rose, Shell Pink, Lavender, Pur-Pkt 10c, 1/4 oz 75c

LAVENDER GEM—An exquisite shade of true lavender, of the comet type; free flowering, erect habit. Pkt 10c, 1/8 oz 60c

DAYBREAK—Flowers are full, large and round, borne freely on long stems. Color a dainty shell pink. Very early. Height 18 inches.

Pkt 10c, 1/8 oz 50c



PURITY - Same as "Daybreak," excepting color, which is a pure, glistening white. Pkt 10c, 1/8 oz 50c

GIANT COMET—Flowers large and beautiful; petals long and twisted.

Rose, Crimson, Dark Blue, Light Blue, Pkt 10c, 1/4 oz 50c White, Mixed.

### ANNUAL BEDDING PLANTS<del>-</del>

We have for early delivery fine large plants that can be set as soon as weather permits and with little care will bloom freely throughout the season.

Annual bedding plants are so inexpensive and satisfactory that they should be planted extensively for cut flowers in the home as well as for garden effects. They also make splendid displays in tubs and porch boxes. See page 104.

ASTER PLANTS In season we offer fine large plants of all Standard Varieties. These are well rooted and sure to give good results. See Plant Dept



### Annual Flower Seeds—Continued

ACROCLINIUM—Everlasting
Grows about 15 inches high, bearing white or rosy pink flowers, when cut in bud state, can be dried and used for winter bouquets. Sow seeds early in sheltered location and trans-Pkt 5c, oz 75c plant to permanent bed.

**AGERATUM** 

Mexicanum Nanum—Adapted for borders and bedding; covered with feathery blossoms all Summer; sow seed in early Spring in boxes to transplant or sow out of doors and thin to 4 to 6 inches. Shading from dark blue to white. 1 to 1½ feet tall. Dark Blue, White or Mixed. Pkt 5c, ¼ oz 25c

**ALYSSUM** 

A dainty little white flower. Fine for borders, edging and rockwork. In borders, sow thickly so as to form masses. Varies in height from 4 to 10 inches. Sow in Spring or late August.

Maritimum—Sweet.

Pkt 5c, oz 35c

Maritimum—Little Gem.

Pkt 10c, oz 75c Maritimum—Sweet.
Maritimum—Little Gem. habit; profuse Pkt 10c, oz 75c **Procumbens**—Of trailing bloomer.

**AMARANTHUS** 

Handsome foliage and interesting flowers, making a striking effect in borders and beds. Thrives in hot, sunny situation with rather poor soil. 2 to 5 ft. Sow early and transplant. Salicifolius—Willow leaved. Pkt 10c, oz \$1.50 Caudatus—Graceful, drooping flowers.

Pkt 5c, oz 75c Tri-color, or Joseph's Coat—Foliage scarlet, yellow and green. Pkt 5c, oz 75c

BACHELOR'S BUTTON

Centaurea Cyanus or Corn Flower—A hardy annual, easily cultivated. Produces handsome flowers of a great variety of rich colors borne on tall, branching stems, with but little foliage. Striking and handsome. Sow seed in open ground early and transplant. 1 to 2 feet tall. Cyanus—Fine single mixed. Pkt 5c, oz 25c Cyanus—Fine double mixed. Pkt 10c, oz 75c Cyanus—Single blue. Pkt 5c, oz 50c Pkt 10c, oz 75c Cyanus—Double blue. Cyanus—Double pink. Pkt 10c, oz \$4.00

BALLOON VINE

A rapid growing climber. Blossoms\_very small and white. Light, graceful foliage. Bears curiously inflated seed pods. Sow seed where it is to remain. Succeeds best in light warm soil. Pkt 5c, oz 40c 10 to 12 feet tall.

BALSAM—"Lady Slipper"

Handsome plants, producing masses of various colored flowers, half hardy. Curious seed pods which, when ripe, will explode when touched. If sown in May should bloom from July until frost. I to 1½ feet tall.

Double Camellia Flowered—Mixed.

• Pkt 10c,  $\frac{1}{4}$  oz 25c

CATCHFLY—Silene

A hardy annual, yielding for a long time a profusion of umbels of bright colored flowers in various shades of pink. Fine for border or rockery. The plant is covered with glutinous moisture, to which flies adhere; hence its name. Sow in boxes and transplant as soon as large enough to handle. Grows 4 to 6 inches tall. Fine Mixed—All Colors. Pkt 5c, oz 35c

CALLIOPSIS

Very showy and attractive, always covered with a mass of bright flowers ranging in color through yellow, crimson and maroon. Sow where plants are to remain, thinning to 6 to 12 inches. In sunny situation plants will bloom all Summer. Fine cut flowers. 1 to 3 feet tall.

Crimson King. Pkt 10c, oz 50c Golden Wave (Drummondi) Pkt 5c, oz 50c Pkt 10c, oz 50c Coronata Maxima. Pkt 5c, oz 40c Pkt 5c, oz 40c Tall Single Mixed. Tall Double Mixed. Dwarf Mixed. Pkt 5c, oz 50c

CANDYTUFT—Iberis

One of the most highly prized annuals for beds or masses, very useful for cutting. For early blooms sow indoors, transplanting to garden when 2 to 3 inches high. Sowings every two weeks in the open will flower from July until frost. Grows 1 to 1½ feet tall. Giant Hyacinth Flowered—White.

Pkt 10c, oz 75c Carmine, Crimson, Lavender, Mixed.

Pkt 5c, oz 40c

CASTOR BEAN—Ricinus

Tropical appearing foliage plant. Highly ornamental, of stately growth and having large leaves of bronze or glossy green. Should not be planted until soil is warm. Grows 3 to 5 feet tall.

Sanguineus—Brilliant scarlet stems and Pkt 5c, oz 25c fruit. Zanzibariensis—Surpasses all in size and Pkt 5c, oz 20c beauty of colors. Mixed. Mixed—Best varieties. Pkt 5c, oz 20c

CALENDULA—Pot Marigold

The well-known Pot Marigold, valued by Europeans for flavoring soups and stews. Flowers are dried in Fall and kept in paper bags for use. In mild climates this plant will bloom nearly all the year around. Colors range through yellow, orange and gold. I to 2 feet tall. Plant in early Spring in open ground.

Pkt 10c, oz 35c Orange King—Double. Pkt 10c, oz 20c Meteor—Double. Double Sulphur. Pkt 10c, oz 20c Double Mixed. Pkt 5c, oz 20c

CELOSIA CRISTATA—Cockscomb

Very attractive and showy, producing massive heads of deeply colored flowers. Colors, red, purple and yellow. Sow very thinly in boxes indoors, transplanting to other boxes or thumbpots until little combs appear. wanted for border, may be set with combs in a straight line. Grows 9 to 12 inches tall.

Cockscomb Tall. Pkt 10c, oz \$1.00 Dwarf Empress. Pkt 10c, oz \$3.00 Dwarf Fine Mixed. Pkt 10c, oz \$3.00

**CELOSIA PLUMOSA**—(Feathered)

Large plumy heads of crimson or yellow. For pots or open ground. Keeps well when cut. Grows 1 to 2 feet tall.

Thompsoni Magnifica—Yellow.

Pkt 10c, oz \$1.50

Thompsoni Magnifica—Crimson.

Pkt 10c, oz \$1.50

Childsii—(Chinese Wool Flower)



### Annual Flower Seeds—Continued

COSMOS

Seed sown indoors in March or April and transplanted to open ground will produce plants three to five feet high by September, which thereafter and until November will yield hundreds of blossoms three inches across; they are of varicus shades, from pure white to purplish crimson. Both foliage and flowers are unsurpassed for bouquets and vases. (Plants in season.)

Lady Lenox—A magnificent type of extraordinary size and rare beauty. Color a delightful pink. Beautiful under artificial light.

Lady Lenox—White. Pkt 10c, oz 50c Pkt 10c, oz 50c Klondyke—Blooms very early and continuously; three to four feet high; flowers large, golden yellow and borne on long stems.

Pkt 10c, oz \$1.50
Mammoth Flowering—White, pink, crimson or mixed.

Pkt 10c, oz 75c
Marguerite—New and odd; very pretty, petals fringed.

Pkt 10c, oz \$1.50
Early Dawn—White, flushed pink; very early.

Pkt 10c, oz \$1.50

**CHRYSANTHEMUM** 

Very showy, effective and desirable as Summer flowering plants. Hardy annuals. Sow seeds in flats very early in Spring and transplant to garden when soil is warm. Grows 1 to 2 feet. Inodorum—Bridal Robe. Pkt 10c Carinatum — Northern Star — Giant white, black center. Pkt 10c, oz 50c

Carinatum—Single finest mixed.

Pkt 10c, oz 40c

Corinarium—Double finest mixed.

Pkt 10c, oz 40c

DELPHINIUM ... See Larkspurs.

See Larkspurs

A splendid plant for large beds or shrubbery border. Of branching habit, each branch producing a large head of attractive flowers. Sow seed in open ground as soon as weather is warm and settled. Height 3½ feet.

Gigantea Red. Pkt 10c Gigantea Alba—Pure white. Pkt 10c

CENTAUREA IMPERIALLIS

Sweet scented flowers on long, strong stems Will last several days when cut. Colors, white pink, rose and purple. Sow where plants are to remain, thinning to 12 inches apart. Grows 1 to 3 feet tall.

White, Purple or Rose.
Suaveolens.
Moschata—Mixed.
Gymnacarpa.
Candidissima.

Pkt 10c, oz \$1.50
Pkt 10c, oz \$1.25
Pkt 10c, oz \$1.25
Pkt 10c, oz \$1.25
Pkt 10c, oz \$3.00

CLARKIA

Hardy annual of easy growth, produces a fine effect massed in beds, bright and attractive. Fine for cutting. Does well in shade. Sow early in open ground and thin to 6 inches. Grows 1 to 2 feet tall.

Elegans—Salmon Queen—Double.

Pkt 10c, oz \$3.00

Elegans—Scarlet Queen—Double.

Pkt 10c, oz \$3.00 Elegans—White—Double. Pkt 10c, oz 75c Elegans—Double mixed. Pkt 10c, oz 75c COBAEA SCANDENS—(Plants in Season)

A handsome, rapid-growing, climbing plant, having large, bell-shaped flowers, beautiful foliage and peculiarly delicate and curious tendrils. Seeds should be planted on edge in shallow boxes of soft soil, covering with glass until seedlings appear. Transplant to permanent location about May. Grows to a height of 12 to 15 feet.

Purple. Pkt 10c, oz \$1.25 White. Pkt 10c, oz \$1.25

CYPRESS VINE—I pomoea Quamoclit

Climber with rapid growth. Has delicate fernlike foliage and great numbers of star-shaped blossoms with long tubes. Soak seeds over night in warm water, then sow where vine is to grow. Does best in warm, sunny location. Grows 10 to 15 feet.

White, Scarlet or Mixed. Pkt 10c, oz \$1.25

Clusters of small white blossoms followed by curious, spiny, globular fruits. A rapid-growing climber. Very good for covering old fences or trellises. Seed should be planted in Fall where vine is to remain, as it is difficult to germinate if sown in Spring. Height 10 to 12 feet. Hardy annual. Pkt 5c, oz 35c

**EUPHORBIA** 

Branching, bushy plants with smooth, glossy leaves of various colors. Suitable for beds or borders. Sow seeds in open ground, transplanting when few inches high. Give plenty of room. Good foliage plant. Height 2 to 3 feet.

Heterophylla—Painted leaf. Annual poinsetta. 3 feet.

Pkt 10c, oz \$2.25

ESCHSCHOLTZIA—California Poppy

There are generally classed and grown as annuals, but are true, hardy perennials. see description under perennials.

FOUR O'CLOCK—Mirabilis Jalapa

Marvel of Peru—Easy culture, bearing a profusion of bright flowers of various shades. Flowers open at four o'clock, close in morning. Sow seeds early in the open and transplant. Should be 15 to 18 inches apart. Grows 2 to 3 feet high.

Choice Mixed.

Pkt 5c, oz 35c

GAILLARDIA—Blanket Flower

Very showy garden plant, with brilliant flowers; free blooming from early Summer until Autumn; especially effective in masses. Sow seeds early where plants are to bloom. Thin to 12 inches. Colors crimson, brown and crange. Splendid cut flower. Height 1 to 2 feet

Picta Lorenziana—Double; finest mixed; annual. Pkt 5c, oz \$1.00

**GODETIA** 

Profuse and constant bloomers, compact and bushy in growth. Colors, rose, crimson, white and pink. Sow seeds indoors in boxes and transplant. Succeeds in poor soil. Height 1 foot. Semi-dwarf. Fine Mixed. Pkt 10c, oz \$1.00 Gloriosa. Dark Red. Pkt 10c, oz \$1.25 Duchess of Albany. White. Pkt 10c, oz 75c

## Annual Flower Seeds—Continued

**GOURDS** 

Good climber. For covering verandas and trellis work, rapid growth, bearing fruits of curious shapes. Plant after soil is warm. Height 10 to 20 feet.

Calabash. Pkt 5c, oz 35c Bottle and Egg Shaped. Pkt 5c, oz 35c Large Varieties Mixed. Pkt 5c, oz 35c Small Varieties Mixed. Pkt 5c, oz 35c

GYPSOPHILA—(Annual)

Grandiflora Elegans—Easily raised from seed. Grows from 18 to 24 inches, bearing beautiful, large, star-shaped flowers in great profusion. First sowings should be made in flats very early and transplanted out when 2 to 3 inches high. Make later sowings in open ground for continuous supply White. Pkt 5c, oz 35c

HELICHRYSUM—Straw Flower
Monstrosum—Everlasting. One of the best for Winter bouquets. Hardy annual. Colors, red, yellow and white. Effective for bedding. Sow seeds in open and transplant or thin to 12 inches. Height 2 to  $2\frac{1}{2}$  feet.

Double Mixed. Pkt 10c, oz \$1.00

HYACINTH BEAN—Dolichos Lablab

Rapid growing, ornamental, climbing annual, bearing clusters of beautiful purple and white flowers, followed by highly ornamental seed pods. Sow seeds early where vine is to remain. Height 10 to 12 feet. Mixed. Pkt 10c, oz 20c

**HOLLYHOCKS**—New Annual

Hybrida Semperflorens — This splendid variety will bloom in August, from Spring planting, continuing until frost. This is a great advantage, as other varieties do not bloom until the second year. Try them. Finest New Single Mixed.

Pkt 10c, oz \$1.00

HUNNEMANNIA—Giant Yellow Tulip Poppy or Bush Eschscholtzia

Fumariaefolia—Best of the poppy family for cutting. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup yellow, poppy-like blossoms, and never out of flower until a hard frost. Height 2 to 3 feet. Pkt 5c, oz 75c

ICE PLANT

Mesembrianthemum Crystalinum-Pretty Summer trailing annual for vases and rock work; leaves covered with ice-like drops. Sow seeds early in boxes and plant out when soil is warm. Height ½ to I foot.

Pkt 5c, oz \$1.00

KOCHIA TRICHOPHYLLA - Fire Bush or

Summer Cypress

Forms symmetrical highly decorative bushes, foliage green, turning to fiery red in Autumn. Sow seeds in open and thin to 15 inches. Valuable for Summer hedges. Height 1 to 2 feet. Pkt 5c, oz 25c

LINUM—Crimson Flax

Annual - Beautiful and effective; hardy, about 18 inches high; covered with bright scarlet flowers. Pkt 5c, oz 50c LARKSPUR—Annual

The annual Larkspurs are quite hardy and bloom in the later Summer months, furnishing flowers of striking beauty in form and color. Tall varieties are suitable for shrubberies and borders, while the dwarf sorts produce charming effects in beds. Seeds sown in open garden in April will usually produce flowers by July, continuing until frost. Good cut flower. Height 1 to 2 feet.

Dwarf Rocket—Finest colors. Double mixed. Hardy annual. Pkt 10c, oz 50c Hardy annual. Pkt 10c, oz 50c
Tall Double Stock Flowered — Lustrous Carmine, Dark Blue, Rose, White or Finest mixed. Pkt 10c, oz \$1.00

**LOBELIA** 

Delicate, low-growing, annual plants of the greatest value for borders, ribbons, edgings. rock work and hanging baskets. Sow seeds very thinly in boxes, covering with glass until seedlings are through surface. Plant out when I inch high. Height 6 to 8 inches.

Hybrid Hamburgia—Light blue with white eye, long, drooping flower stalks; fine for hanging baskets or boxes; grows rapidly

Pkt 10c, oz \$8.00 Gracilis—Blue, trailing; beautiful for baskets.

Pkt 5c, oz \$2.00 Crystal Palace Compacta—Dwarf flowers, very fine and rich, deep blue; finest for bedding Pkt 10c, oz \$4.00 and edging. Compacta Emperor William.

Pkt 10c, oz \$4.00 MARIGOLD—Tagetes

A hardy plant in dwarf and tall varieties foliage bright green and deeply cut. Flowers are various shades of yellow and brown. Sow seeds early in flats and transplant to garden when 3 to 4 inches tall. For specimen plants soil should be light, rich and deeply spaded. Height 1 to 2½ feet.

African. Tall or Dwarf, Double Mixed.

Pkt 5c, oz 75c

French. Dwarf Double Mixed.

Pkt 5c, oz 75c Tall Striped Double. Extra select.

Pkt 10c, oz \$1.25 French.

Golden Ball. New Dwarf. Very compact.

Pkt 10c, oz 75c Legion d'Honneur. Dwarf Single.

Pkt 10c, oz 75c MIGNONETTE—Reseda

A quick-growing fragrant annual. Produces the largest and finest spikes of blossoms during cool, moist weather of early Spring and late Fall months, but will flower freely throughout the Summer from seed sown early in Spring. A second planting should be made about the first of August to furnish large, fine spikes of flowers during the cool Fall months. Sow seeds where plants are to remain, as seedlings are difficult to transplant successfully.

to 6 to 12 inches. Height 1 foot. Odorata Grandiflora — Large, well-formed, fragrant flowers. Pkt 10c, oz 50c Machet—White. White with reddish tinge. Best white, dwarf variety. Pkt 10c, oz \$1.00 Golden Queen—Dense, dwarf growth; flower golden yellow; very fragrant. Pkt 5c, oz 50c Machet—Red, Victoria. Dwarf, compact flowers red: fine. Pkt 5c, oz60c,





ASTURTIUMS are hardy annuals, of easy culture and flower best where the soil is not too rich. The new hybrids include various shades of rose, salmon, bright red, pale yellow, etc., either self-colored or spotted, mottled, striped and margined.

For covering trellises, fences, arbors, piazzas, trailing from vases, over rockwork, for bedding, etc., nothing can equal the gorgeous effect produced by their marvelous wealth of bloom, borne in uninterrupted splendor from early Summer until cut down by frost. The seeds, picked green and pickled in vinegar have a piquant, appetizing flavor that is a valuable addition to relishes or pickles.

### Tall Varieties

CHAMELEON-Variable flowers marked and blotched in many brilliant colors.

KING THEODORE—Large, velvety crimson

flowers, very attractive dark green leaves.

MOONLIGHT-PEARL—Soft primrose.

DUNNETT'S ORANGE—Large, bright, pure orange flowers.

PRINČE HENRY-Fine lemon yellow, clear

carmine blotches.
SALMON QUEEN—Extra large light salmon, suffused rosy salmon.

RUBY—Beautiful ruby red. Fine open flowers.

NAMED VARIETIES

Pkt 5c, oz 20c, ¼ 1b 60c, 1b \$2.00 MIXTURE—Standard tall varieties.

Pkt 5c, oz 15c, 1/4 lb 45c, lb \$1.50

### Ivy Leaved

TALL MIXED—Climbing habit with pointed leaves of rich ivy green veined white, resembling English Ivy. Flowers have narrow petals and are quite distinct and pleasing.

Pkt 10c, oz 25c, 1/4 lb 75c DWARF MIXED. Pkt 10c, oz 25c, 1/4 lb 75c

### **Dwarf Varieties**

CHAMELEON—Variable colorings in bronze, crimson and yellow, rich markings.

CLOTH OF GOLD — Brilliant scarlet, golden yellow leaves.

EMPRESS OF INDIA — Intense scarlet, purplish green leaves.

PRINCE HENRY - Lemon yellow, with carmine blotches.

VESUVIUS — A rich salmon orange, dark foliage

NAMED VARIETIES

Pkt 5c, oz 20c, 1/4 lb 60c

MIXTURE—Standard varieties.

Pkt 5c, oz 15c, 1/4 lb 45c

### Variegated

TALL MIXED—Foliage beautifully marked and marbled yellow and cream on the green ground, some leaves appearing almost white. Flowers come in all colors and markings.

Pkt 10c, oz 25c, 1/4 lb 85c

DWARF MIXED. Pkt 10c, oz 25c, 1/4 lb 85c

#### MORNING GLORY

The tall varieties are popular, well known, rapid growing climbers of the easiest cultivation, attaining a height of 10 to 12 feet. Very fine for covering arbors, trellises, porches, etc. The Minor, or Dwarf varieties flower very freely and do not require support. Plant seeds early where plant is to remain.

Convolvulus Major — Tall, choice single, mixed, all colors. Pkt 5c, oz 25c Double Mixed—Tall. Pkt 5c, oz 50c

Convolvulus Minor—Dwarf mixed.

Pkt 5c, oz 25c Imperial Japanese Fringed—These have very large fringed flowers in a great variety of the most exquisite colorings; handsome, variegated foliage. Mixed. Pkt 5c, oz 25c MIMOSA—Sensitive Plant

Pudica—A good foliage plant. Very curious and interesting; leaves close if touched or shaken; annual. Height 1 to 1 ½ feet.

Pkt 10c, oz \$1.25

MOON FLOWER—I pomoea Mexicana Grandiflora

Rapid growing climber belonging to the "Morning Glory" family. At night and on cloudy days vine is covered with fragrant white flowers 4 to 5 inches in diameter. Seeds must be soaked then planted where vine is to remain, thinning to 12 inches. Height 10 to Pkt 10c, oz \$1.00 12 feet.

# **MASTODON PANSIES**

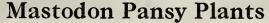
FOR years the Steel Pansy Gardens have grown our Giant Pansies and co-operated in securing the finest strains from the world's most celebrated growers. These have been carefully re-selected and bred up to their present surpassing excellence, and for giant size, substance, form and coloring we have never seen Pansies to compare with them. Named varieties and special strains are grown separately and the seed collected by hand and carefully blended into what we believe to be the finest mixture ever offered.

PANAMA-PACIFIC—A magnificent deep yellow, some with dark centers, some clear yellow. 200,000 of these wonderful yellow were massed at the Panama-Pacific Exposition. Pkt 25c

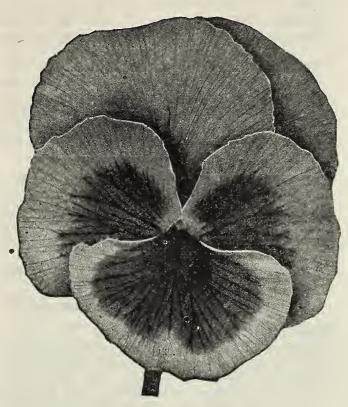
MADAME STEELE—"Elks purple"—a deep rich, true, royal purple pansy of great substance and giant size. Pkt 25c

MASTODON BRONZE—A giant strain of bronze pansies in all the different shades from burnished brass to gold. Nearly every color known to pansies. Pkt 25c

MASTODON WHITE—Dark center. Magnificent new white of great beauty and substance and of true Mastodon form. Pkt 25c Mastodon Pansy Seed, Diamond Mixed, Pkt 25c, Trade pkt \$1.00



From April to June we offer our famous Mastodon Pansy Plants in jull bloom, packed in baskets of one dozen each. See Plant Dept.



## LARGE FLOWERING PANSIES

ADONIS—A distinct and beautiful shade of light blue with white center and dark blotch, most pleasing and attractive. Pkt 10c

GOLDEN QUEEN—A rich, pure yellow of the grandest form and size. A valuable addition to the yellows. Pkt 10c

GIANT DARK BLUE—A splendid blue black, very elegant, and of good substance. Pkt 10c

GIANT STRIPED—A superior strain of truly giant pansies, with the most beautiful striped markings in richest dark shades. Pkt 10c

VIOLET BLUE—A new giant variety of a brilliant, dark indigo blue, with violet luster, each petal having a large, dark brown, veined blotch. Edges slightly ruffled. Pkt 15c

KING OF THE BLACKS (Giant)—Immense velvety black flowers of the finest quality; the largest and best black pansy. Pkt 10c

MADAME PERRET—A beautiful and distinct type with edges of petals frilled—bordered white, colors are dark wine—pink and red, beautifully veined. The earliest of the Giants, and has the sweetest perfume. Pkt 15c

SNOW FLAKE—A grand, pure white, of extra fine quality. Pkt 10c

CORNFLOWER BLUE—A dainty cornflower blue, large, good substance. Pkt 10c

MASTERPIECE — GIANT RUFFLED — The mammoth size, richness and beauty of colorings and frilled or ruffled character of the petals make "Masterpiece" one of the most distinct and interesting Pansies. Pkt 25c

### Fancy Strains of Mixed Pansies

TRIMARDEAU GIANTS — Of remarkably large size and robust growth; very fine.

Pkt 10c, 1/4 oz 85c, oz \$3.00

FINE MIXED—A fine assortment of colors.

Pkt 10c, ½ oz 25c

LARGE FLOWERING DIAMOND MIXED —No pains are spared to make this strain perfect in form, texture, size, freedom of bloom, and elegance and variety of markings.

Pkt 25c, 1/8 oz 75c

SPECIAL—Transplanted Seedling Plants just turning into buds can be furnished at \$3.00 per hundred. Florists and gardeners should write for prices on these plants, as large orders can be quoted at very low prices.



## Annual Flower Seeds—Continued

#### **NICOTIANA**

A very showy plant, producing star-shaped flowers of delicious perfume. Taken up in the Fall, cut back and potted, will bloom freely all Winter. Half hardy annual; three feet high. Sow seeds in boxes indoors or in a sheltered situation in the open. Transplant when 2 inches high. For best results give plenty of room, very rich soil and full sunlight.

Affinis—White. Pkt 5c, oz 75c Hybrida—Splendid mixed. Pkt 10c, oz 75c

Sanderae—Resembles the "Affinis," but unlike that variety, does not close up in the daytime. The plants are covered with carmine-red, fragrant flowers. Pkt 10c, oz \$1.25 Sylvestris—Pure white, fragrant, drooping flowers; deep green foliage. Pkt 10c, oz 75c

#### **NIGELLA**

Love-in-a-Mist, or Devil-in-the-Bush— Compact growing, free flowering plants with curious looking, showy flowers and finely cut foliage. Colors blue and white. Sow about April and thin to 8 to 10 inches. Height 1 to 2 feet. Hardy annuals.

Mixed. Pkt 5c, oz 40c

Miss Jekyll—Cornflower Blue

Pkt 10c, oz 75c

### OENOTHERA—Evening Primrose

Elegant for growing in an exposed position, in border or on rockery; constant bloomer all Summer. Shades of yellow. Sow seeds early in boxes, covering very lightly with fine soil firmly pressed down. Transplant seedlings to warm, sunny situation. Height I foot.

Fine Mixed.

Pkt 10c, oz 60c

#### PETUNIA—Hybrida

During the whole season it is covered with large, showy blossoms, which are always bright and fresh, in spite of heat and drought. The flowers are of an almost infinite variety of colors and markings, and quite as varied in form; large and small, fringed and plain, double and single. Hardy Annual. Sow seeds very thinly indoors under glass. Care should be taken to save the weaker seedlings as they produce the finest flowers. Transplant to garden when soil is warm. Height 1 to 1½ feet.

Single Fine Mixed. Pkt 10c, 1/8 oz 25c Single Choicest Mixed. Pkt 10c, 1/8 oz 50c Single Fringed Mixed—Large flowered; very desirable. Pkt 25c

Double Choicest Mixed. Pkt 25c

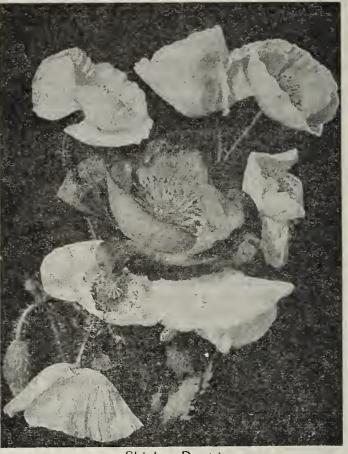
Pkt 25c Double Fringed Mixed.

#### **PORTULACA**—Rose Moss

Brilliant dwarf annuals, only six inches high, luxuriating in warm situations, and blooming profusely in early Summer to Autumn. For low beds and masses of color from Spring until frost, they are indispensable; colors range through innumerable shades of red, yellow, pink, white, striped, etc. Sow seeds indoors and transplant when soil is warm. Thrive best in hot and dry situation.

Single Mixed.

Pkt 5c, 1/4 oz 30c Double Mixed. Pkt 10c,  $\frac{1}{16}$  oz 20c



Shirley Poppies

#### PHLOX DRUMMONDI

Unrivaled for richness and beauty of color, ranging from white to the deepest scarlet and purple. For cutting, for bouquets or for bedding in masses they are unsurpassed. Hardy annual, one foot high. Sow as soon as soil is Transplant about one foot apart.

Large Flowering—Scarlet, white or mixed.

Pkt 10c, 1/4 oz 75c Star Phlox—(Cuspidata)—Flowers have a distinctive star-like appearance, with white margins, excellent for bouquets. Pkt 10c, 1/4 oz 75c Pkt 10c, 1/4 oz \$1.25 Dwarf Mixed

POPPY—Papaver

Magnificent, showy flowers borne separately on talls stalks in many bright and charming Some are hardy annuals, others are perennials. Sow seeds very early where they are to remain. Barely cover seed with fine soil and press down firmly. Thin to one foot. If cut before fully open blossoms will last several days. Height 1 to 3 feet.

Double Carnation Flowered—Fringed; as-Mixed, Pkt 5c, oz 40c sorted colors. Shirley—The range of color, extending from white through delicate shades of pink, rose and carmine, to the deepest crimson; fine for cutting. Pkt 5c, oz 40c Single Mixed. Miss Sherwood—Petals sating white, shading Pkt 5c, 1/8 oz 25c to chamois rose. Double American Flag-White bordered Pkt 5c, oz 50c with scarlet.

King Edward—Large flowers produced with great freedom. Deep scarlet, shaded crimson, red, with large black blotch. Height 2½ feet. Pkt 5c, oz 1/4 25c

Glaucum—(Tulip Poppy)—Brilliant scarlet flowers, 3 inches across. Pkt 10c, oz 75c

## Annual Flower Seeds—Continued

SALPIGLOSSIS—Painted Tongue

Showy, funnel-shaped flowers of large size. Fine for beds. Half-hardy annuals. Sow seeds in boxes indoors or in a hotbed and transplant to one foot apart when soil is warm. Height 2 to 3 feet.

Emperor Strain—Crimson and gold, dark scarlet, rose and gold, violet and gold, yellow and finest mixed. Pkt 10c, 1/4 oz 60c

SALVIA—Flowering Sage

Very ornamental; flowers borne in spikes of fiery red or crimson, and continue in bloom in open ground until after severe frosts. Start in heat and transplant into light soil, one to two feet apart. Excellent for bedding in masses or single planting. Hardy-annuals.

Salvia Zurich — New Dwarf Early. finest of all Dwarf Salvias. Very floriferous. Pkt 10c, 1/8 oz \$1.00

Salvia Splendens—Brilliant scarlet.

Pkt 10c, ½ oz \$1.00

Bonfire—(Clara Bedman)—One of the finest Salvias ever introduced; compact bush about two feet in height and diameter. Its erect spikes of flowers of brilliant scarlet stand clear above the dark green foliage and completely cover the plant. Pkt 10c, 1/4 oz \$1.25

SCHIZANTHUS—Butterfly Flower

Beautifully fringed and delicately colored flowers so numerous as to hide the foliage. Splendid bedding plant. Seeds sown in open come into bloom in a few weeks. Fine pot plant for house in Winter. Height 1 to 2 feet. Pkt 10c, 1/4 oz 20c Mixed Colors.

STOCKS—Double Ten Weeks

These popular flowers are easily grown, and are so highly fragrant and of such beauty that they deserve a place in every garden. They they deserve a place in every garden. They are great improvements over the Gilliflowers of the olden times. Seeds should be sown under glass in a warm place, giving plenty of air after seedlings are up. Transplant when about z inches high. Winter stocks should be potted before frost. Height I to 1½ feet.

Dwarf Large Flowering—White, crimson rose, light blue, or mixed.

Pkt 15c, 1/8 oz 60c

Virginian Stock — A fine, early flowering plant. Hardy annual.

Mixed. Pkt 5c, 1/4 oz 15c

STOCKS—Winter or Brompton

Beauty of Nice—Very large flowers of a delicate flesh pink. Extra fine. Pkt 15c, 1/8 oz 60c Crimson King—Rich blood crimson. Pkt 15c Mont Blanc-Purest white. Pkt 15c Monte Carlo—Canary yellow. Pkt 15c Queen Alexandra—Soft rosy lilac. Pkt 15c Mixed. Pkt 15c, ½ oz 60c Mixed.

SAPONARIA

Pretty, dwarf bedding plant. Hardy annual bearing masses of satiny pink flowers resembling an enlarged Gypsophila. Fine for cutting. Sow seeds early in Spring and occasionally through Summer to keep continuous supply. Height 1 to 2 feet...

Pink. Pkt 10c, 1/2 oz 25c STOCKS—Dresden Perpetual or Branching

These 10 weeks everblooming are popularly called, "Cut and Come Again." Sown in March they flower profusely from July until frost; their best period being late Autumn. Very fragrant.

Princess Alice—White. Pkt 15c, 1/4 oz 75c La France—Blush pink. Pkt 15c, 1/4 oz 75c Pkt 15c, 1/4 oz 75c Brilliant—Blood red. Sapphire—Violet. Pkt 15c, ¼ oz 75c Pkt 15c, ¼ oz 75c Creole—Canary yellow. May Queen—Pale blue. Pkt 15c, 1/4 oz 75c

SCABIOSA

Sweet Scabious, Or Mourning Bride—Free flowering annuals; white, carmine, lilac, maroon, etc.; effective for garden decoration and valuable for cutting. Sow seeds in open as soon as soil is warm, thinning to 8 to 10 inches. Blooms from early July until frost. Height 2 to 2½ feet.

Dwarf or Tall Double—Mixed.

Pkt 5c, 1/4 oz 25c

SUNFLOWER—Helianthus

Stately growing annuals with immense golden yellow flowers; effective for garden decoration. Should be planted where they are to remain. Height 6 to 8 feet.

Dwarf Double—Bright golden yellow flowers three inches across. Pkt 5c, oz 50c Globosus Fistulosus—Saffron, very large, Pkt 5c, oz 30c double and handsome. Multiflora—Beautiful, double yellow flowers. Pkt 5c, oz 30c

THUNBERGIA—Black Eyed Susan

Rapid-growing annual climbers; splendid for trailing over trellises, fences, etc., beautiful flowers borne in profusion; buff, white, orange, etc., four to six feet high. Grows readily from seed sown in the open, or may be propagated by cuttings.

Mixed Colors. Pkt 5c, 1/4 oz 35c

VERBENA

Very few annuals will make such a gorgeous display during the Summer months, or furnish more flowers for cutting. Start seed in the house or under glass early in the Spring and transplant after three or four inches of growth. They flower in July and continue strong and healthy until frost. Height 8 to 12 inches. **Mammoth Mixed**—Selected; extra large,

Pkt 15c, 1/4 oz 75c fine. Fine Mixed. Pkt 10c, 1/4 oz 35c

Candidissima—Pure white

Pkt 10c, 1/4 oz 50c

Pkt 10c, oz \$1.25

Scarlet Defiance—Fiery scarlet.

Pkt 10c, ½ oz 50c Pkt 10c, ¼ oz 75c Pkt 10c, ¼ oz 75c Pink Shades. Blue Shades.

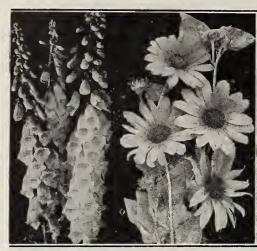
ZINNIA ELEGANS—Youth and Old Age

Half hardy annuals. Easily grown from seed sown in the open and thinned to one foot apart. For specimen plants, sow indoors early and transplant into rich soil. Wide range of colors. Height 1 to 2 feet

Dwarf Double Mixed. Pkt 10c, 1/4 oz 30c Cispa, Crested Mixed. Pkt 10c, 1/4 oz 30c Double Giants—Crimson, blush pink, golden yellow, scarlet, white and special mixed.



# PERENNIAL FLOWER SEEDS







#### **AGROSTEMMA**

Coronaria—Foliage silvery white, blossoms crimson, resembling single pinks. Strikingly beautiful for beds, ribbons and borders. Seeds should be sown where plants are to remain and thinned to prevent crowding. Height two feet. Perennial. Pkt 5c, oz \$1.00

#### **ALYSSUM**

Saxatile — Showy, bright yellow flowers, blooms the first season if sown early indoors. Fine for borders. Height 6 to 12 inches.

Pkt 5c, 1/4 oz 50c

#### ANCHUSA—Italica

Dropmore—A splendid, free blooming plant for hardy borders, growing to a height of about 5 feet. Flowers are of a beautiful gentian-blue color. Seeds should be sown in sheltered place outdoors and transplanted when large enough to handle. Should be 2 to 3 feet apart.

Pkt 15c, oz \$2.00

#### ANTIRRHINUM—Snapdragon

One of the most useful and showy of border plants of almost every color. Also makes splendid cut flowers. They have recently been much improved and are now really magnificent. Hardy perennial. For best results plant seeds indoors very early, planting out when about 3 inches high. Height 2 to 3 feet.

Tall Giants-White, yellow, garnet, scarlet. Pkt 10c, 1/8 oz 25c Queen Victoria—Large; pure white. Tall.

Pkt 10c, 1/4 oz 50c Pkt 10c, 1/8 oz 25c Tall, Finest Mixed. Dwarf, Finest Mixed. Pkt 10c, 1/8 oz 25c

#### ARABIS—Rock Cress

One of the earliest and prettiest Spring flowers unequaled for rockeries or edging, withstands the drought, pure white flowers. Sow seeds in permanent location and thin to 6 inches. Height 6 to 8 inches.

Alpina. Pkt 10c, 1/4 oz 35c

ASTERS-Hardy Perennial-Michaelmas Daisy Handsome flowers of easy culture, appearing at a time when flowers are scarce; make attractive garden display as well as cut flowers. If seed is sown indoors very early and seedlings set in open as soon as large enough to handle, they will bloom the first season. Do best in a sunny location. Height 2 to 3 feet.

Large Flowering Mixed. Pkt 10c, 1/4 oz 50c

ASPARAGUS SPRENGERI—Emerald Feather One of the best of the new so-called ferns. Feathered foliage; useful for bouquets, wreaths or sprays, remaining perfect for weeks after cutting. Seeds should be sown under glass with night temperature of about 65 degrees.

Will germinate in 4 to 6 weeks. Height 2 to 4 feet. (For plants see Plant Department.)

Pkt 10c, 50 seeds 25c

ASPARAGUS PLUMOSUS—Asparagus Fern One of the prettiest house plants. The leaves are bright green, gracefully arched, surpassing Maidenhair Ferns in grace, delicacy of texture and richness of color. Culture same as Sprengeri. Height 6 to 12 feet. (For plants see Plant Dept.) Pkt 25c, 50 seeds 50c

BEGONIA

Begonias are among the most beautiful of flowering plants, especially adapted to pot culture. They are difficult to grow from seeds even in a greenhouse. Generally propagated by cuttings. (See Plant Department.) Gracilis—Pink, White, Bonfire, Luminosa.

Salmon Queen.

Pkt 25c

### CALCEOLARIA

Beautiful flowers of unique form and colors, ranging from red, yellow, brown and orange. Fine for pot culture. Seeds should be sown in flats very thinly, covering lightly with sifted soil firmly pressed down. As soon as large enough to handle, seedlings should be transplanted to thumb pots, shifting from size to size as they become potbound. Of little value outdoors as the hot sun ruins the blooms.

Hybrida—Finest mixed. Pkt 50c

CANTERBURY BELLS—Campanula

in May. Keep seedlings well watered and transplant to permanent location in July or August. Give rich soil and plenty of room.

Media Single—Blue, rose, white or mixed.

Pkt 10c, 1/4 oz 35c Calycanthema—(Cup and Saucer)—White, pink, light blue or mixed. Pkt 10c, 1/4 oz 75c Persicifolia—Very fine, blooms in June. Blue or White. Pkt 15c, 1/8 oz \$1.00 Pyramidalis—Stately, hardy plant for pot culture or garden. Blue or white. Pkt 10c, 1/4 oz 75c



CANNA—Indian Shot

Large, ornamental, tropical looking plants of easy culture. Soak seeds in warm water for several hours, or until they commence to swell, then plant under glass. When second leaf appears transplant into pots and keep under glass until soil outside is warm. Colors red and yellow. Height 2 to 6 feet. (For Canna Bulbs see Plant Department.)

Pkt 10c, oz 40c Crozy's Dwarf Mixed.

CARNATION—Dianthus Caryophyllus

Carnations are Tender Perennials, being easily Winter killed. Splendid for cut flowers, deliciously fragrant. Colors pink, white and red. Sow seeds indoors in March. Transplant seedlings to other boxes when one inch high. Keep them growing well until soil is warm, then transfer to open garden. Height 1 to 11/2 feet. Fine Plants in Season. See Plant Dept. Chabaud Everblooming—Flowers in five to six months from sowing.

Extra Choice Double Mixed. Pkt 15c Margaret Carnations—Bloom in 4 months

from seed.

Finest Double Mixed. Pkt 10c, 1/8 oz 50c Giant or Malmaison—Mixed. Pkt 15c

Magnificent and indispensable flowering plants for the window garden. The flowers of white, blue, violet and crimson shades, covering the plant with a sheet of bloom. Seeds very fine. Should be sown under glass in very fine soil. Pot off seedlings and shift from size to size as necessary.

**Hybrida**—Grandiflora, prize mixed. Extra Pkt 50c choice.

Fine Mixed Pkt 15c Dusty Miller (Maritima Candidissima) -Beautiful silvery-leaved border plant; half Pkt 10c, 1/4 oz 35c hardy perennial.

COIX LACHRYMAE—Job's Tears

A broad-leaved, ornamental grass, having large, tear-shaped, hard, shining, pearl-gray seeds. Plant in prepared seed bed in open, transplant to permanent location when a few inches tall. 2 to 3 feet. Pkt 5c, oz 25c

COLUMBINE—Aquilegia

Universal favorite for hardy borders and beds. Colors, white, blue, yellow and orange. Seeds sown very early in boxes indoors will usually produce blooming plants the first season, or they may be sown in open about the first of July and the young plants lightly protected the first Winter. Height 2 to 3 feet.

Coerulea Hybrid—Blue shades with white. Pkt 10c, 1/8 oz 75c

Chrysantha—Golden yellow.

Pkt 10c, ½ oz 75c Chrysantha—Grandiflora Alba. Beautiful, pure white. Good for forcing. Pkt 10c, ½ oz 75c Skinneri—Orange, red. Splendid cut flower Pkt 10c, 1/2 oz 75c variety

COREOPSIS

Lanceolata—Large, showy, bright yellow flowers produced in great abundance from June until frost; fine for cut flowers. Sow seeds indoors very early, transplanting to open when soil is warm. Height 1 to 2 feet.

Pkt 10c, 1/4 oz 25c

COLEUS

Probably the best known and most popular of ornamental foliage plants. Leaves of all shades and colors. Tender perennial. Sow seeds in flats indoors. Transplant seedlings to other flats until settled warm weather, when they may be transplanted to open garden. Should be potted for house culture before frost. Height 1 to 2 feet.

Extra Choice Mixed.

Pkt 25c

**CYCLAMEN** 

Florists' pot plant. Beautiful Winter and Spring flowering plants for the window and greenhouse. Special cultural instructions on request.

Giganteum Hybridum—White with carmine eye, dark red, salmon-pink.

DAISY—Bellis Perennis

Popular low-growing plant bearing beautiful flowers. Hardy perennial. Sow seeds in boxes about August and transplant to cold frame or some location where they may be protected the first Winter. Plant in permanent location early in Spring. Height six inches.

Longfellow—Double pink. Pkt 10c, 1/6 oz 40c

Giant Double Monstrosa-Red, white, pink Pkt 15c, 1/6 oz 60c or mixed. Double Quilled—Darkred. Pkt 15c, 1/6 oz \$1. Shasta Alaska—Very hardy; profuse bloomers; flowers very large and borne on long stems, single; petals pure glistening white, dark center.

DAHLIA

A magnificent, Fall-blooming tuberous-rooted plant. Sow seeds in boxes indoors very early, transplanting to open when danger from frost is past. Will bloom first season. Tubers of the best ones may be saved for following season. Height 3 to 6 feet. See Plant Department for Finest Named Dahlias.

Pkt 10c, ¼ oz 60c Pkt 10c, ¼ oz 50c Double Mixed. Single Mixed. Cactus—Flowers odd and fantastic in shape; all colors. Finest Mixed. Pkt 15c, 1/8 oz 40c

DATURA

Large, strong-growing plants, trumpet-shaped flowers, white, sometimes tinted with blue. Roots can be preserved like Dahlias. Sow seeds in sheltered bed in open and transplant when 2 to 3 inches high. Give plenty of room and rich soil. Height 2 to 3 feet. Fastuosa Huberiana—Double mixed.

Pkt 10c, oz \$1.00 Cornucopia—Very fragrant. Pkt 10c, oz \$1.

DRACAENA

Ornamental greenhouse plant. Very desirable. Indivisa Lineata—Narrow, dark foliage. Pkt 10c, 1/4 oz 30c

DIGITALIS—Fox Glove

A tall growing biennial, with large leaves and spikes of vari-colored and spotted flowers. Fine for borders or background. Sow seeds in prepared seed bed in May. Keep seedlings well watered and transplant to permanent location in July or August. Give rich soil and plenty of room. Height 3 to 6 feet. Gloxiniflora—Mixed. Pkt 10c,

Pkt 10c, 1/4 oz 35c



DELPHINIUM—Larkspur

Profuse blooming plants, their tall spikes of many colored flowers produce a striking effect when planted in groups. Sow seeds in boxes indoors in early Spring, transplanting to other flats when second leaf appears. When soil is warm, set in open ground 6 to 8 inches apart, resetting the next Spring, giving rich soil and plenty of room. As a cut flower this is one of the best. Height 3 to 6 feet. See Plant Dept. for Finest Named Varieties. Chinese Azureum—Blue; fine for cutting.

Pkt 10c, 1/4 oz 50c Chinese Blue Butterfly. Pkt 10c, 1/4 oz 50c Chinese Album White. Pkt 10c, 1/4 oz 50c Belladonna—Light blue. Pkt 15c, ¼ oz \$1.75 Formosum—Dark blue. Pkt 10c, ¼ oz \$1.00 Cardinale-Brilliant scarlet. Pkt 10c, 1/4 oz 75c FORGET-ME-NOT-Myosotis

Beautiful Spring favorites, of easy growth, bearing clusters of lovely, small blue flowers. They can be left in the open ground except in very cold latitudes. Fine for borders and shady situations. Sow seeds in box or prepared bed in the open. Transplant when two inches

high. Height one foot.

Alpestris—Of trailing habit, with pretty flowers. Blue or mixed. Pkt 10c, 1/4 oz 35c Victoria—Flowers large, bright azure blue; fine for borders and pots. Pkt 10c, 1/8 oz 50c Semperflorens—Dwarf; continuous bloomer;

Pkt 10c, 1/8 oz 50c blue.

GAILLARDIA—Blanket Flower

Exceedingly beautiful, showy plants, one to two feet high. Grown in masses they are especially effective; large flowers, two or three inches across, unrivaled for cutting. Seeds sown very early and transplanted as soon as soil is warm will usually bloom in July. Colors range through crimson, orange and brown.

Grandiflora Maxima—Perennial. Mixed.

Pkt 10c, 1/4 oz 25c

#### **GERANIUM**

A half-hardy perennial, easily and quickly grown from seed. Sow seeds thinly in boxes indoors, covering with glass until seedlings appear. When about one inch high transplant to small pots in rather poor soil firmly pressed down. Can later be re-potted in larger sizes or transferred to open garden. All colors.

Height 1 to 2 feet.

Zonale—Extra choice, single mixed, the well-known bedding Geranium.

Pkt 10c Lady Washington—(Pelargonium)—Foliage green; flowers large. Finest mixed Pkt 25c

GREVILLEA ROBUSTA—Silk Oak

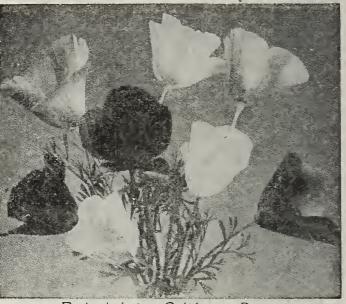
Very beautiful and graceful foliage plant with fern-like foliage—a splendid pot plant. Sow seeds in boxes in late Winter or early Spring, potting the seedlings when 2 to 3 inches tall. Re-pot frequently to maintain rapid growth. Height 2 to 4 feet. Pkt 10c, oz \$1.25

GYPSOPHILA—Baby's Breath

A pretty, free-flowering plant. Fine for bouquets. Pink and white. Seeds very small. Sow in boxes indoors, covering lightly with sifted soil firmly pressed down. Transplant to open as soon as large enough to handle.

Height 2 to 3 feet.

Paniculata—Foliage fine; covered with tiny pure white flowers. Hardy. Pkt 5c, 1/4 oz 25c



Eschscholtzia—California Poppy

ESCHSCHOLTZIA—California Poppy

Beautiful and popular perennial, although often grown as an annual. They commence to bloom within a few weeks' time from Springsown seed and continue to flower profusely until late in the Autumn, forming nice, bushy plants 1 to 1½ feet high. Colors yellow, red, orange and white. Fine delicate foliage. Sow seeds either in Fall or Spring where plants are to remain as seedlings are difficult to trans-Thin to 12 inches.

Single White or Mixed. Pkt 5c, oz 40c Geisha. Pkt 10c, oz \$1.00 Golden West-Yellow with orange center-Pkt 5c, oz 50c flowers large Carmine King. Pkt 5c, oz 75c

Mandarin-Inner side of petals rich orange, outer side brilliant scarlet; very striking; Pkt 5c, oz 40c Vesuvius. Pkt 10c, oz 75c

(For other sorts see Poppies.)

**GEUM**—Chiloense

Hardy, free-blooming plants. Fine for bouquets. Flowers crimson, double. Blooms all Summer. Height 8 to 12 inches. See Plant Department.

Scarlet Semi-Double. Pkt 10c

HOLLYHOCK, or Althaea

The modern Hollyhock is a great improvement over the old type, the flowers being larger and richer colored. For backgrounds there can be nothing better. Hardy. Seeds should be sown in open from Spring to mid-Summer, transplanting to permanent location in late Fall. Give rich soil for best results. Five feet high. Chaters—Superb strains. Double varieties. of greatest perfection.

Scarlet, Rose-Pink, Maroon, Yellow, White, Mixed. Pkt 10c, 1/4 oz 75c

HELIOTROPE

Flowers in large clusters of lovely shades of blue. Delightfully fragrant and free-blooming. Splendid for bedding, pot culture or bouquets. Start under glass very early in Spring, transplanting to pots or open garden. Will bloom

in 2 to 3 months. Choice Mixed. Pkt 10c, 1/8 oz 50c Fine Mixed—Very fine. Pkt 10c, 1/8 oz 40c

KUDZU VINE—Pueraria Thunbergiana

Beautiful Japan climber, hardy perennial with fragrant purplish-violet, wistaria-like flowers. Height 10 to 12 feet. Pkt 10c

LANTANA

A free-flowering shrubby plant, suitable for out-door or pot culture. The flowers emit an agreeable odor and are of many shades of purple, orange and white. Half-hardy perennial. Sow seeds thinly in boxes indoors, covering very lightly. Transplant to garden when 2 to 3 inches high. Height 1 to 2 feet.

Hybrida Fine Mixed. Pkt 10c, ¼ oz 35c

LEMON VERBENA

Every garden should have a few plants of this fragrant favorite. Its pale green foliage goes well with any flower. Height 1 to 2 feet. (Usually propagated from cuttings, seldom from seed.)

Pkt 10c

LINUM—Crimson Flax

Effective and showy bedding plants having fine foliage and delicate stems. Flowers brilliant crimson. Sow seeds where wanted and thin to 6 inches. Height 1 to 2 feet.

Grandiflorum Rubrum. Pkt 5c, oz 50c

LOBELIA

Cardinalis—Flowers rich red; dark green foliage. Especially valuable for border decoration. Sow seeds in boxes indoors. Cover very lightly with sifted soil and press down firmly. Cover box with glass until seedlings appear. If sown in January or February, will usually bloom in May. Height 6 to 12 inches.

Pkt 10c, 1/8 oz 75c

LUPINUS

Shrubby plants, bearing long spikes of flowers. Colors white and pink, occasionally blue. Sow seeds in open early in Spring. Transplant when 2 to 3 inches high. Give plenty of room. Height 1 to 2 feet.

Perennial—Mixed. Pkt 5c, oz 40c

LYCHNIS

Rose Champion—Jerusalem Cross—Few plants produce more brilliantly colored blossoms. Flowers are borne in clusters and continue fresh and brilliant for a long time. Hardy, I to 2 feet high. Orange, scarlet and crimson. Seeds should be sown where plants are to remain, thinning to prevent crowding. Haageana Hybrida—Mixed.

Pkt 10c, 1/8 oz 35c

**MIMULS** 

Moschatus or Musk Plant—Cultivated for its rich musky odor. Flowers yellow, white or spotted. Height 1 ft. Should have a rich soil and ample moisture. Will bloom first year if seed is sown early. Does best in shady situation.

Pkt 10c, ½ oz \$1.00.

Tigrinus Nanus, or Monkey Flower—Beautifully spotted. Mixed, all colors.

Pkt 10c, ½ oz \$1.00

PAMPAS GRASS—Cortaderia Argenteum.

A noble ornamental grass, easily grown from seed; producing majestic plumes that are invaluable for Winter decorations. Height 6 to 10 ft. Sow seeds thinly in a sheltered place, transplanting to another prepared bed when a few inches high. Set out in permanent location when about 1 year old. See Plant Department.

Pkt 10c

PASSIFLORA—Passion Flower

Most interesting and well-known climber, bearing singularly beautiful flowers. Height 10 to 12 feet. Blue. Pkt 10c, ¼ oz \$1.00

PENTSTEMON—Beard Tongue

Brilliant bell-shaped flowers borne on long spikes, and produced abundantly all Summer. Colors range through red, rose, cherry, carmine, pink and purple. Should be sown indoors. Cover lightly and press down firmly. Transplant to open.

Mixed. Pkt 10c, ¼ oz 75c

PEAS—Perennial—Lathyrus Latifolius

Similar to Sweet Peas, but not so fragrant; they bloom through a long season, are perfectly hardy, and will live for years. Should be sown near a fence or other support, thinning to 2 to 3 feet apart. Height 4 to 6 feet.

Mixed. Pkt 10c, oz 75c

PINKS—The Dianthus family embraces some of the finest of all flowering plants. The blooms are of the richest and most pleasing colors, and nothing can surpass the exquisite fragrance of some varieties. They are hardy, and become perennial in warm climates. Sow seeds in boxes indoors and plant out in good soil when I to 2 inches high.

Chinensis—Single mixed. Pkt 5c, ¼ oz 15c Chinensis—Double mixed. Pkt 5c, ¼ oz 25c Heddewigii—Single mixed. Color varies from richest velvety crimson to delicate rose.

Pkt 5c, ¼ oz 25c
Heddewigii—Double mixed. Large flowering;
splendid. Pkt 10c, ¼ oz 50c
Heddewigii Diadematus Fireball—Extra
double brilliant dark scarlet. Very beautiful.

Pkt 10c, ¼ oz 50c Heddewigii Dwarf Snowball—Double white. Pkt 10c, ¼ oz 50c

Heddewigii Laciniatus—Fine single fringed, finest assorted colors. Pkt 10c, ¼ oz 50c Plumarius Scottius — Old fashioned Scotch pink. Pkt 10c

PHLOX DECUSSATA—Perennial

Large compact heads of bloom from mid-Summer until Fall. Height 2 to 4 feet. Wide range of colors. Sow seeds early in boxes and transplant seedlings once before placing in permanent location. Usually blooms the first season. See Plant Department for finest named varieties.

Mixed. Pkt 10c, ½ oz 50c

**POPPIES** 

Seeds should be planted in small pots and thinned to one plant in each pot, as they are difficult to transplant. When pot is full of roots, plant in permanent location in good soil. Height 1 to 3 feet.

Bracteatum—Hardy perennial; very showy, red.

Pkt 10c, ¼ oz 35c
Iceland, or Nudicaule—Bright green, fernlike foliage, formed in tufts from which issue slender stalks about 12 inches high, bearing yellow, white or orange-scarlet flowers in endless profusion and most useful for cutting. Mixed colors.

Pkt 10c, ¼ oz 35c
Oriental—Hybrida mixed. Very hardy and early flowering.

Pkt 10c, ¼ oz 50c



#### PRIMULA—Primrose

The first three varieties named below are hardy, early blooming garden plants, and the others beautiful winter-blooming house plants. Soak seeds in warm water for 24 hours, then sow thinly in shallow boxes of soft sandy soil, covering lightly with sand. Press down firmly and cover with glass until through the surface. When large enough to handle transfer into other boxes of fine soil. Remove to permanent location when about 2 inches high.

Polyanthus—Early blooming, dwarf growing plants. Valuable for outdoor bedding. Mixed

colors.

Pkt 10c, ½ oz \$1.00

Vulgaris—Yellow, common, English Primrose.

Pkt 10c, ½ oz \$1.00

Japonica, or Japanese Primrose—The beautiful, large, various colored flowers stand in whorls, pyramidically arranged on short flower stems one foot high; though perennial, new plants flower more freely, and seeds should be sown every year. Mixed varieties.

Pkt 15c, 1/8 oz 75c Sinensis, or Chinese Primrose—The beautiful, large fringed flowers stand in pyramids arranged on short flower stems. Blossoms of every shade of color, from pure white to deep crimson, and even deep blue; especially fine for Winter and Spring flowers in the house; Pkt 25c,  $\frac{1}{32}$  oz \$2.00 Finest mixed. Sinensis—Double finest mixed. Obconica Grandiflora — Beautiful single flowers. This is really an ever-blooming plant, producing elegant clusters of flowers continuously throughout the year. Fine mixed. Pkt 15c,  $\frac{1}{16}$  oz \$2.00

**PYRETHRUM** 

Very ornamental plants, for both foliage and flowers. Seeds should be sown very early in boxes. Cover very lightly with sifted soil and press down firmly. Transplant to permanent location as soon as large enough to handle. If flowers are allowed to form, foliage will change

from yellow to green. Height 1 to 2 feet.

Parthenium Aurem, or Golden Feather.

Gold leaved, flower white. Pkt 5c, 1/4 oz 25c

RUDBECKIA—Golden Glow

Newmani—Brilliant orange yellow petals around a large dark center. Useful for borders or as a single group. Sow seeds in a sheltered location and transplant when a few inches Pkt 15c high. Height 4 to 6 feet. Fulgida—Orange yellow; perennial. Pkt 15c Lacinita—Double. Golden yellow. Pkt 25c

SMILAX—Medeola Asparagoides

Charming, tender, perennial climber for greenhouse or window gardens. The foliage and stems are of pleasing light green; excellent for decoration. If grown from seeds, should be treated same as Asparagus Sprengeri. Pkt 5c, 1/2 oz 35c Plants.)

#### SNAPDRAGON—See Antirrhinum

STATICE—Sea Lavender
Splendid for border or rockery, producing panicles of minute flowers, can be dried and used for Winter bouquets. Sow where plants are to remain and thin to 6 to 12 inches. Height 1 to 1½ feet. Pkt 10c Blue.

SWEET ROCKET—Hesperis

An old, hardy garden favorite. Fragrant white flowers, 2 to 3 feet high, resembling Perennial Phlox. Sow seeds early and transplant once before placing in permanent loca-Pkt 5c, 1/4 oz 15c tion.

Sweet Sultan-See Centaurea.

SWEET WILLIAM—Dianthus Barbatus

Remarkably free-flowering plant of brilliant colors, ranging from snow white to darkest crimson and purple, and emiting a very delicate and refreshing fragrance. May be sown in open and thinned to 6 to 8 inches. Height I to 1½ feet.

**Single Mixed**—Very beautiful.

Pkt 5c, ½ oz 50c

Dunnetti—Dark crimson, single.

Pkt 10c, ½ oz 60c

Pure White—Single. Pkt 10c, ½ oz 75c Double Mixed. Pkt 10c, ½ oz \$1.00

TRITOMA—Red Hot Poker

Bright, showy flowers produced in large spikes of brilliant rich colors. Although hardy, requires some protection through the Winter. Will bloom first season from seeds sown indoors very early and planted out as soon as soil is warm. Cut flowers keep a long time. Height 2 to 3 feet.

Uvaria—Dazzling orange red.

Pkt 15c, oz 75c

VALERIANA—Garden Heliotrope

Sweet scented flowers having red or white blooms produced in large heads. Fine border plants, 2 to 3 feet high. Sow seeds early in boxes and transplant to permanent location as soon as large enough to handle. have rich soil.

Red.

Pkt 5c, 1/4 oz 35c

VINCA—Old Maid

Tender perennial. Fine for pot culture. Flowers white and pink. Mixed. Pkt 10c, 1/4 oz 50c

**VIOLET** 

Violet Odorata is the well-known English Violet, a free-flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating, succeeds best in partially shaded moist places.

Blue—Very fragrant. Pkt 10c, ½ oz 50c The Czar—Finest forcing Violet. Very large. Dark blue.

WALL FLOWER—Cheiranthus Cheri

Produces spikes of beautiful, exceedingly fragrant flowers. Colors yellow, red, orange and brown. Half hardy perennials. Sow seeds in open and transplant to permanent location late in Summer. Should bloom second season. Height 1 to 1½ feet.

Goliath—Single, extra large; fine dark brown, very early; fine for forcing. Pkt 10c, 1/4 oz 50c

Mixed, Single—Large flowering.

Pkt 5c, 1/4 oz 25c

Finest Tall Double Mixed—Branching. Pkt 10c, 1/6 oz 75c



## **CLASSIFICATION OF FLOWERS**

This will enable you to tell at a glance what flowers are suitable for any position

Annual Bedding Plants or Tall Border Plants  1 to 2 feet	Bedding Plants—Perennial—1 to 2 feet high
	Agrostemapink
Ageratum, Tallblue, white or mixed	Astervarious colors
Astersvarious colors	Begoniavarious colors
Balsamvarious colors	Calceolariavarious shades and colors
Brachycomeblue, white, rose	Calla
Browalliablue and white	Candytuftall colors
Calendulamixed	Carnationyellow, white, red, pink and variegated
Candytuftvarious colors	Cinerariavarious colors
Celosiacrimson	Coleus.
Centurea	Columbineyellow, violet, rose
Chrysanthemumyellow, white, gold	Daisy (Shasta) white
Clarkiapink, scarlet	Gaillardiayellow, orange, scarlet
Eschscholtzia (California poppy) crimson, white, yellow	Geumscarlet
Four O'Clockvarious colors	Linum. various colors
Gaillardiaorange, scarlet	Lychnisscarlet
Giliawhile, lilac rose.	Pentstemonvarious colors
Calatia white	Salviascarlet
Godetiavariegated rose and white	
Gypsophila (for bouquets)white	Staticewhite, blue, yellow
Linum (scarlet flax)scarlet	Stocks (perpetual) all colors
Marigoldyellow, red, brown and variegated	Sweet Williamvarious colors
Mignonettewhite, yellow, red	Tritomaorange, red
Nasturtium, dwarfvarious colors	Vincawhite, rose.
Nigella (Love in a mist)	Wallflowervarious colors
Petuniavarious colors	
Poppyvarious colors	Low Edging Plants-Perennial, 6 to 12 inches high
Phloxvarious colors	<del>-</del>
Scabiosawhite, lilac, carmine and maroon	Alyssum Saxatileyellow
Schizanthusvarious colors	Anemonevarious colors
Salviascarlet	Pinksvarious colors
Stocks (10 weeks)all colors	Daisy, Englishvarious colors
Viscariavarious colors	Edelweiss
Zinniavarious colors	For-get-me-notblue
Zunnatanoas colors	Oxalisyellow, pink, lavender, white
W1 4 .4 . W14	Poppy, Icelandwhite, orange, yellow
Everlasting Flowers	Primulavarious colors
Acrocliniumall colors	Pyrethrumvarious colors
Globe Amaranth, Gompherenavarious colors	Violayellow, white and blue
Helichrysumvarious shades	
Rhodanthepink, white	Tall Growing Shrub Plants-Perennial
Staticewhite, blue and yellow	For Grouping from 2½ feet up
•	Abutilon
Tall Convint Plants for Crouning Annual	
Tall Growing Plants for Grouping—Annual	Anchusiablue
From 2½ feet up	Astervarious colors
From 2½ feet up  Amaranthusscarlet	Aster
From 2½ feet up  Amaranthusscarlet Calliopsisyellow, brown, maroon	Aster
From 2½ feet up  Amaranthusscarlet Calliopsisyellow, brown, maroon Castor Bean	Aster
From 2½ feet up  Amaranthusscarlet Calliopsisyellow, brown, maroon Castor Bean	Aster
From 2½ feet up  Amaranthusscarlet Calliopsisyellow, brown, maroon	Aster
From 2½ feet up  Amaranthus	Aster
Amaranthus	Aster
Amaranthus	Aster
Amaranthus	Aster
Amaranthus	Aster
Amaranthus	Aster
Amaranthus	Aster
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine. yellow, violet, rose Dahlia. all colors Delphinium various colors Digitalis. Fuchsia. Geranium scarlet, white, pink Gladiolus various colors Goldenrod yellow Hollyhock various colors Lantana red, white, yellow
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine yellow, violet, rose Dahlia. all colors Delphinium various colors Digitalis Fuchsia. Geranium scarlet, white, pink Gladiolus various colors Goldenrod yellow Hollyhock various colors Lantana red, white, yellow Lavender
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine yellow, violet, rose Dahlia all colors Delphinium various colors Digitalis Fuchsia. Geranium scarlet, white, pink Gladiolus various colors Goldenrod yellow Hollyhock various colors Lantana red, white, yellow Lavender Lobelia Cardinalis scarlet
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine yellow, violet, rose Dahlia all colors Delphinium various colors Digitalis Fuchsia Geranium scarlet, white, pink Gladiolus various colors Goldenrod yellow Hollyhock various colors Lantana red, white, yellow Lavender Lobelia Cardinalis scarlet Lupin shades of blue
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine yellow, violet, rose Dahlia all colors Delphinium various colors Digitalis Fuchsia Geranium scarlet, white, pink Gladiolus various colors Goldenrod yellow Hollyhock various colors Lantana red, white, yellow Lavender Lobelia Cardinalis scarlet Lupin shades of blua Poppy, Oriental various colors
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine. yellow, violet, rose Dahlia. all colors Delphinium various colors Digitalis. Fuchsia. Geranium scarlet, white, pink Gladiolus. various colors Goldenrod. yellow Hollyhock various colors Lantana red, white, yellow Lavender Lobelia Cardinalis scarlet Lupin. shades of blua Poppy, Oriental various colors Phlox, Perennial various colors
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine. yellow, violet, rose Dahlia. all colors Delphinium various colors Digitalis. Fuchsia. Geranium scarlet, white, pink Gladiolus. various colors Goldenrod. yellow Hollyhock various colors Lantana red, white, yellow Lavender Lobelia Cardinalis scarlet Lupin. shades of blua Poppy, Oriental various colors Phlox, Perennial various colors
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum. various colors Columbine. yellow, violet, rose Dahlia. all colors Delphinium. various colors Digitalis Fuchsia. Geranium. scarlet, white, pink Gladiolus. various colors Goldenrod. yellow Hollyhock. various colors Lantana. red, white, yellow Lavender. Lobelia Cardinalis scarlet Lupin. shades of blua Poppy, Oriental various colors Phlox, Perennial various colors Scabiosa. Snapdragon, Tall
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum. various colors Columbine. yellow, violet, rose Dahlia. all colors Delphinium. various colors Digitalis Fuchsia. Geranium. scarlet, white, pink Gladiolus. various colors Goldenrod. yellow Hollyhock. various colors Lantana. red, white, yellow Lavender. Lobelia Cardinalis scarlet Lupin. shades of blua Poppy, Oriental various colors Phlox, Perennial various colors Scabiosa. Snapdragon, Tall
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine yellow, violet, rose Dahlia all colors Delphinium various colors Digitalis Fuchsia Geranium scarlet, white, pink Gladiolus various colors Goldenrod yellow Hollyhock various colors Lantana red, white, yellow Lavender Lobelia Cardinalis scarlet Lupin shades of blua Poppy, Oriental various colors Phlox, Perennial various colors Scabiosa Snapdragon, Tall various colors Wallflower various colors
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine yellow, violet, rose Dahlia all colors Delphinium various colors Digitalis Fuchsia Geranium scarlet, white, pink Gladiolus various colors Goldenrod yellow Hollyhock various colors Lantana red, white, yellow Lavender Lobelia Cardinalis scarlet Lupin shades of blua Poppy, Oriental various colors Phlox, Perennial various colors Scabiosa Snapdragon, Tall various colors Wallflower various colors
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine yellow, violet, rose Dahlia all colors Delphinium various colors Digitalis Fuchsia Geranium scarlet, white, pink Gladiolus various colors Goldenrod yellow Hollyhock various colors Lantana red, white, yellow Lavender Lobelia Cardinalis scarlet Lupin shades of bluk Poppy, Oriental various colors Phlox, Perennial various colors Scabiosa Snapdragon, Tall various colors Wallflower various colors Various colors Various colors
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Amaranthus	Aster. Various colors Canna. Various colors Canterbury Bells Various colors Chrysanthemum Various colors Chrysanthemum Various colors Columbine Spellow, violet, rose Dahlia all colors Delphinium Various colors Digitalis Fuchsia Searlet, white, pink Gladiolus Scarlet, white, pink Gladiolus Various colors Goldenrod Pellow Hollyhock Various colors Lantana red, white, yellow Lavender Lobelia Cardinalis Scarlet Lupin Shades of blue Poppy, Oriental Various colors Phlox, Perennial Various colors Scabiosa Snapdragon, Tall Various colors Wallflower Various colors
Amaranthus	Aster. various colors Canna. various colors Canterbury Bells various colors Chrysanthemum various colors Columbine yellow, violet, rose Dahlia all colors Delphinium various colors Digitalis Fuchsia Geranium scarlet, white, pink Gladiolus various colors Goldenrod yellow Hollyhock various colors Lantana red, white, yellow Lavender Lobelia Cardinalis scarlet Lupin shades of blua Poppy, Oriental various colors Phlox, Perennial various colors Scabiosa Snapdragon, Tall various colors Wallflower various colors Climbing Vines—Perennial Ampelopsis, Boston Ivy and Virginia Creeper Clematis white, lavender, red Cobea Scandens Kudzu Vine violet  For Rockeries, Hanging Baskets or Window Boxes
Amaranthus	Aster
Amaranthus	Aster. various colors Canna various colors Canterbury Bells various colors Chrysanthemum various colors Columbine yellow, violet, rose Dahlia all colors Delphinium various colors Delphinium various colors Digitalis Fuchsia. Geranium scarlet, white, pink Gladiolus various colors Goldenrod yellow Hollyhock various colors Lantana red, white, yellow Lavender Lobelia Cardinalis scarlet Lupin shades of blua Poppy, Oriental various colors Phlox, Perennial various colors Scabiosa Snapdragon, Tall various colors Wallflower various colors  Climbing Vines—Perennial  Ampelopsis, Boston Ivy and Virginia Creeper Clematis various colors Clematis white, lavender, red Cobea Scandens Kudzu Vine violet  For Rockeries, Hanging Baskets or Window Boxes Asparagus Fern Edelweiss For-get-me-not blue Ice Plant Lobelia Trailing blue Mimulus yellow, white, pink, lavender Oxalis yellow, white, pink, lavender
Amaranthus	Aster
Amaranthus	Aster
Amaranthus	Aster





DIAMOND QUALITY ROSES are large, sturdy, two-year-old, field-grown roses that will give you splendid flowers the first season. They are true to name and our list includes the best of the well known popular varieties, the most meritorious of recent novelties and the Gold Medal roses of famous European growers.

Abbreviations

T.—TEA—These frequently winter without any protection, although during coolest weather and in cold sections they should be protected.

H. T.—HYBRID TEA—Most of these are as free flowering as the teas, and are hardier, but, as a rule, not so hardy as the H. P.'s.

H. P.—HYBRID PERPETUAL—Hardiest of all roses, growth vigorous and easy of culture. Other abbreviations that are often used are: S.—Single; H. B.—Hybrid Briar; Wich—Wichuriana; N.-Noisette; Poly-Polyanthus; Pern—Pernetiana; A. B.—Austrian Briar.

Planting and Care

In our favored section, roses attain a perfection seldom equaled, but you cannot expect them to thrive and bloom unless you care for them. We offer the following simple suggestions.

SOIL—Any good, well-drained garden soil, enriched with fertilizer, will give excellent results. If heavy clay soil mulch well with burnt earth and manure, rotted sod or leaf mold.

FERTILIZER—Our odorless fertilizer, Bone Meal, Tankage of Blood, will give excellent results and should always be applied after the plants start their growth.

WATERING—When setting out, water regularly until roots are well set; then about once a week unless the ground is very dry; in such cases more often. Do not get the foliage wet after a hot day. This causes mildew.

**FIANLLY**—Keep the surface well worked around the plants. This is as necessary as water or fertilizer. When planting cut back freely, and the bush will recover quickly.

SHIPPING—We always send all our two-yearold rose bushes charges collect by express or freight, packing them so they will carry safely even though they should be on the road for two weeks or more.

If necessary, we can send small two-year-old bushes by mail at an additional cost to cover postage, but in such cases we always prune the tops and roots ready for planting.

PRICES-60c roses \$6.00 doz; 75c roses \$8.00 doz.

We offer a splendid assortment of popular roses and the best of the new ones, and can secure any variety in commerce, TRUE to NAME.

# 12 Superb New Garden and Exhibition Roses

Fine 2-year Dormant Plants, not prepaid, \$1.00; unless otherwise priced

- countess clanwilliam (H. T.) A distinct and charming rose, producing flowers in great abundance. Color delicate peach pink, petals flamed and edged with deep cherry red. Long pointed buds opening to large full flowers. Of strong, vigorous habit.
- DUCHESS OF SUTHERLAND—(H. T.)—
  Delicate warm rose pink with lemon shading on white base. Flowers are large, full and conical with unusually large petals and possess a delicious sweet briar perfume. A splendid exhibition and garden rose.
- TIPPERARY—Beautifully formed buds of a bright canary yellow, produced with great freedom. A fine new Irish rose with all the requisites of a good garden and decorative variety.

- H. V. MACHIN—(H. T.)—A splendid exhibition variety. Color, intense scarlet crimson. Well formed flowers of immense size.
- LADY MARY WARD—(H. T.)—Free, vigorous and hardy, color rich orange, shaded deeper orange with metallic veneering.
- LOS ANGELES—Described by the originator as "a flame pink toned with coral and shaded gold at base of petals." Buds long, pointed and lasting. The flowers are very large and the beauty of coloring does not fade. Flowers profusely all season on strong shoots. The foliage is a rich, luxuriant glossy green. Two-year field-grown plants. Everyone should have Los Angeles.

  Each \$1.50

### BEAUTIFUL ROSES OF RECENT INTRODUCTION

The following are the recent novelties and Gold Medal roses that have proven their merit and are now generally in great demand.

Fine 2-year Dormant Plants, not prepaid, 75c; \$8.00 per doz.

ADMIRAL WARD—(H.T.)—A fine bedding variety of vigorous growth and erect branching habit. Spherical blackish red bud opening to large, full, globular flowers of crimson red with shadings of fiery red and velvety purple.

AUGUSTUS HARTMAN—(H.T.)— Large, well formed flowers, with high pointed center. Is perfectly distinct in color, being a brilliant geranium red flushed with orange. The stout stems make it an ideal rose for exhibition. Foliage not susceptible to mildew.

COUNTESS OF SHAFTESBURY—
(H. T.)—Bright, silvery carmine, mottled and flushed shell pink. Profuse bloomer.

DUCHESS OF WELLINGTON— (H. P.)—Intense saffron yellow stained with rich crimson which, as the flower develops, becomes deep coppery saffron yellow. Delightfully fragrant.

GORGEOUS — Strong, vigorous growing with handsome olive-green foliage. Flowers very large, finely formed, produced freely on stout canes. Color deep orange-yellow, heavily veined with reddich copper.

HARRY KIRK — (H. T.) — Deep sulphuryellow passing to a lighter shade at the edge of petals. Robust growth; free branching habit.

**HOOSIER BEAUTY** — Crimson scarlet with darker shadings, velvety texture. Bud long and pointed, deliciously fragrant.

**HUGO ROLLER**—(T.)—Medium sized flowers very freely produced. Color rich lemon-yellow with crimson suffusion on edge of petals.

KING GEORGE V—Large full flowers of rich blackish crimson, deep velvety violet flush.

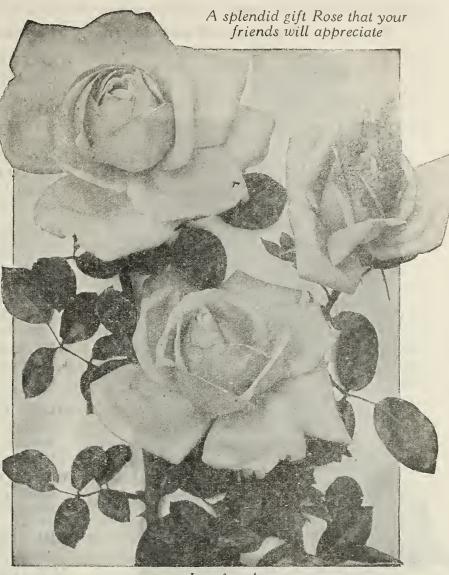
LADY HILLINGDON — (T.) — Deep apricot yellow, long and pointed bud. Flowers are of good substance and very lasting. Foliage luxuriant. A fine forcing or garden rose, excellent for cutting.

LE PROGRESS—(H. T.)—Nankeen yellow, opening to saffron yellow; large and full.

LOUISE CATHERINE BRESLAU—(H. T.)
—Coral red, shaded chrome yellow, opening to a shrimp pink, shaded coppery orange.

MADAME MELANIE SOUPERT—(H. T.)— Splendid new orange yellow shaded pink; beautiful, long-pointed buds. Best of its color.

MAD. RAVARY—(H. T.)—Clear orange yellow. Long pointed buds; flowers of fine form.



Los Angeles

MARQUIS DE SINETY—(H. T.)—Deep saffron yellow, flushed reddish copper. Flower large, beautiful dark foliage.

**MELODY**—(H. T.)—Intense deep saffron yellow with primrose edges. Blooms medium size, very fragrant and freely produced.

MAD. EDOUARD HERRIOTT—The famous winner of the *Daily Mail* Prize. The color being terra-cotta bronze and geranium red, a new combination of colors in rose.

MRS. FOLEY HOBBS—(T.)—Immense flowers of ivory white, delicately tinged pink on edge of petals. A great bedding rose.

RAYON D'OR—(Pern)—Long, pointed buds of deep orange-cadmium smeared claret, opening to a rich sunflower yellow. Foliage is deep, glossy green; and free from mildew.

RED LETTER DAY—(H. T.)—An exceedingly beautiful semi-double rose of velvety brilliant scarlet crimson. Flowers are medium size, curiously cactus-shaped and do not blue or burn. Vigorous, erect, free blooming.

SOUVENIR OF STELLA GRAY — (T.)—
Deep orange veined with shades of salmon and crimson. A finely formed full flower of lasting quality. Delightfully fragrant. An ideal buttonhole rose.



## GRAND GARDEN ROSES

In this list you will find many famous prize winners and some of the most beautiful and popular roses Two-year-old plants, not prepaid, except where noted, 60c each.



BETTY—(H. T.)—Beautiful coppery rose color,

overspread with golden yellow. Fragrant. EDWARD MAWLEY—(H. T.)—Long pointed buds of deep, rich, velvety crimson. Growth is upright and branching with handsome foliage. One of the finest red roses.

FRANZ DEEGAN — (H. T.) - This beautiful yellow is a fine grower, having the good habit of throwing up numerous heavy canes.

GEORGE DICKSON—(H. T.)—Very strong and vigorous; velvety blackish crimson, with back of petals heavily veined with pure crimson maroon. Delightfully scented.

JONKHEER J. L. MOCK — (H. T.) — Inside of petals red, outside silvery blush white.

Rapid grower.

JOSEPH HILL—(H. T.)—Salmon pink shaded yellow. Outside petals yellow suffused copper. KAISERIN AUG. VICTORIA — (H. T.) – Elegant, large pointed buds; large, full double flowers; color delicate creamy white; fragrant.

LYON — (Pernetiana)—Beautiful shrimp pink with salmon and chrome yellow shadings. Large, coral red buds, beautifully formed. A continuous and free bloomer. Each 75c

MADAME PHILLIPPE RIVOIRE—(H.T.)-Beautiful apricot yellow and Nankeen yellow center, reverse of petals carmine; large and full. Each 75c

MAD. SEGOND WEBBER—(H. T.)—Pure, rosy salmon, vivid center, large, full and perfectly formed flower, flowering freely and continuously on stiff erect stems.

MISS ALICE DE ROTHCHILD—(T.)—Beautiful, shapely buds of rich golden yellow of the Mareshal Neil type. Holds its color well.

MRS. AARON WARD—(T.)—A deep golden orange color shading out to lemon or creamy yellow at the edge of the petals. One of the most beautiful roses in existence.

MRS. ALFRED TATE — Fine decorative variety with medium sized, well formed Color coppery red, shaded fawn. Blooms freely.

MRS. CORNWALLIS WEST — (H. T.) – Large flowers of rosy shell pink, changing to pure white with age. Growth vigorous and erect.

MRS. DAVID McKEE — (H. T.) — Creamy yellow, large, full and free. Test of its color.

**OLD GOLD—**(H. T.)—Medium sized flowers of a vivid reddish orange color with coppery red and coppery apricot shadings. A splendid garden rose.

OPHELIA — (H. T.) — Orange salmon buds, opening to flowers of dainty pink. The foliage is clean, dark and leathery—growth vigorous and free, producing long canes. Blooms early and continuously.

PERLE VON GODESBERG—(H.T.)—A sport from Kaiserin Augusta Victoria having the charming grace of this old time favorite. Rich creamy yellow, very fragrant and free blooming. A splendid pot rose.

SUNBURST—(H. T.)—The finest of all yellow roses with long pointed buds. Color a superb Cadmium yellow with orange yellow center. The foliage is a handsome bronze green.

VISCOUNTESS FOLKESTONE — (H. T.) – Color, delicately tinted flesh, almost white, with beautiful satin finish; strong stems.

## Spokane Seed Co.'s "Diamond" Fancy Lawn Mixture

Our "Diamond Quality" Fancy Mixed Grass Seed is prepared from the choicest recleaned grass seeds that have been carefully selected for their fineness and deep rooting, close growing habits and seasonable qualities, producing an indeal dense, velvety turf of lasting quality that remains green throughout the year.

Price, per lb, 50c postpaid; freight or express, not prepaid, per lb, 40c; 10 lbs, \$3.70. Sow one pound to 400 square feet, 12 to 15 pounds to a 50-foot lot.

### FAVORITE GARDEN AND EXHIBITION ROSES

A choice collection of the best standard varieties, "tried and true," sure to give satisfaction.

Two-year field-grown plants, not prepaid, 60c; doz \$6.00.

- **AMERICAN BEAUTY**—(H. P.)—One of the largest, sweetest and best; rich rosy crimson, shaded and veined in a most charming manner.
- **AVOCA**—(H. T.)—Deep scarlet crimson flowers of perfect form; very fragrant.
- **BESSIE BROWN**—(H. T.)—Creamy white; large, full, of very fine form. An exhibition rose.
- **BELLE SIEBRECHT**—(H. T.)—A true, solid pink of the richest shade, a rare color. The flowers are sweetly perfumed, and large; beautifully formed, of long, tapering shape, with high center, and when half blown the petals reflex in a graceful manner.
- **COUNTESS OF GOSFORD**—(H. T.)—Clear salmon pink, base of petals shading to saffron yellow, very vigorous; perpetual bloomer.
- **DEAN HOLE**—(H. T.)—Beautiful silvery carmine, shaded bright golden pink. Free bloomer.
- DOROTHY PAGE ROBERTS (H. T.) Coppery pink, suffused with apricot yellow, very free and perpetual, a delightful garden rose.
- **ETIOLE DE LYON**—(T.)—Sweet scented; color, rich golden yellow; blooms freely.
- **FLORENCE PEMBERTON**—(H.T.)—Creamy white, suffused pink. Very large and full.
- GENERAL McARTHUR—(H. T.)—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.
- GRUS AN TEPLITZ or VIRGINIA R. COXE—(H. T.)—Color fiery crimson, with a dark velvety sheen, very fragrant. Free blooming.
- **HUGH DICKSON**—(H. P.)—Glowing crimson-shaded scarlet. A strong grower and perpetual bloomer (should be cut back freely).
- JULIET— (H. B.)—A wonderful combination of old gold on the outside of petals and a rich rosy red on the inside. Flowers large, full and delightfully scented.
- J. B. CLARK—(H. T.)—Flowers are intense scarlet shaded blackish crimson, of giant size. finely formed and fragrant; growth vigorous,
- KILLARNEY QUEEN—A sport from the well known Killarney but a much more robust grower, producing fine, large, nice formed buds of a deep rich rose color, lightened towards edge of petals. Very strong growing, remarkably strong canes of great length. A fine garden rose.
- LADY ALICE STANLEY—(H. T.)—Large, full flowers of lovely, deep coral, inside pale flesh. A free grower and a profuse bloomer.
- LA DETROIT—(H. T.)—A beautiful shell-pink shading in center to soft rose pink. Reverse of outer petals creamy-flesh tint; strong grower.

- **LADY ASHTOWN**—(H. T.)—One of the finest pinks of a rich, deep, silvery tone; flowers large
- LADY BATTERSEA (H. T.) Long, oval buds, sharply pointed; bright, cherry crimson.
- LA FRANCE—(H. T.)—A silvery rose, changing to pink. A general favorite. Sweetest of all roses.
- MAD. ABEL CHATENAY—(H. T.)—Color beautiful rosy carmine, with darker shadings
- MAMAN COCHET—(T.)—Color is a deep rosy pink, the inner side of the petals silvery rose
- MME. LEON PAIN—(H. T.)—A silvery flesh with yellowish orange center; large and full.
- MADAME CAROLINE TESTOUT—(H.T.)— Bright satiny pink; very fragrant and free in bloom. The official "Carnival Rose."
- MRS. DAVID JARDINE—(H. T.)—Delightful shade of bright, rosy pink, shading in outer petals to salmon pink; large, highly perfumed.
- MRS. JOSEPH H. WELCH—Very large deep flower with reflexed petals. Color brilliant rose-pink. A splendid exhibition variety.
- MRS. R. G. SHARMAN CRAWFORD—(H. P.)—Lovely deep rose pink, outer petals shaded pale flesh, base white. Large flowers.
- **PAPA GONTIER**—(T.)—A vivid cherry red color, shaded yellow, reverse of petals crimson.
- **PERLE DES JARDINS**—(T.)—A clear, golden yellow, an indescribably rich, beautiful shade.
- **PRINCE DE BULGAIRE** (H. T.) Very vigorous grower, with large, bright green foliage. Outer petals are extremely large, of superb rosy flesh color; bright red center.
- PRES. W. R. SMITH—(T.)—(Maidenblush)— Elegantly shaped buds and open flowers of exquisite silvery pink color; sweetly perfumed.
- RADIANCE—Long, straight canes with handsome foliage each terminating in a large, full flower of globular form of great sweetness. Color rich bright cerise, entirely distinct from any other known variety.
- RICHMOND—(H. T.)—Vivid red buds and flowers of the most perfect and desirable form.
- SOUV. DE PRESIDENT CARNOT—(H. T.)— Lovely shell-pink, delicately tinted with gold fawn on rich creamy white. Superb for bedding.
- WHITE KILLARNEY—(H. T.)—Long pointed buds of purest white and heavy wax-like texture opening to large full flowers; very lasting.
- WHITE LA FRANCE—(H. T.)—This magnificent rose is a pure white La France, having just a breath of rose-tinted blush.
- WHITE MAMAN COCHET—(T.)—Immense size, exquisitely fragrant; long, pointed buds.
- WINNIE DAVIS—Fine apricot pink shading to the flesh tint at base of petals. A grand, hardy garden rose.



# Finest Hardy Perpetual Roses

FOR Eastern Oregon and Washington or in sections where the winters are severe, this collection will thrive and bloom freely where the Tea and Hybrid Tea roses would not prove satisfactory.

Two-year-old plants, not prepaid, 60c each; \$6.00 per doz.



MRS. JOHN LAING—(H. P.)—A soft, delicate pink, with satiny tinge; very free flowering.

PRINCE CAMILLE DE ROHAN—(H. P.)—Dark, rich, velvety crimson, passing to intense maroon, shaded black; best of its color.

PAUL NEYRON—(H. P.)—Deep, shining rose, blooms freely, the largest variety in existence.

BARONESS ROTHSCHILD—(H. P.)—Flowers of immense size; color bright rosy pink. CAPTAIN HAYWARD—(H. P.)—Immense

CAPTAIN HAYWARD — (H. P.) — Immense flowers in great freedom, sweetly scented. Color deep glowing red shaded crimson.

Color deep glowing red shaded crimson.

CONRAD F. MEYER—(Rug.)—Beautiful silvery pink, very hardy, its handsome foliage makes it most valuable for a flowering hedge.

FRAU KARL DRUSCHKI— (H. P.)— The

FRAU KARL DRUSCHKI — (H. P.) — The white American Beauty. Makes splendid buds and immense flowers; perfectly double.

and immense flowers; perfectly double. GLOIRE LYONNAISE—(H. P.)—Color, chamois yellow, deepest at the center, passing to creamy white; large, full, sweet, very distinct.

**GENERAL JACQUEMINOT** — (H. P.) — Bright, shining crimson; very rich and velvety.

**HUGH DICKSON**—(H. P.)—Glowing crimson-shaded scarlet. A strong grower and perpetual bloomer (should be cut back freely).

bloomer (should be cut back freely).

MABLE MORRISON — (H. P.) — Of purest velvety white; very double and rounded.

velvety white; very double and rounded.

PINK DRUSCHKI—(Geo. Arends)—(H. P.)—

Moderately large full flower of beautiful bright pink. Is of free flowering habit and highly perfumed. Considered the best of the so-called pink Druschki.

**ULRICH BRUNNER**—(H. P.)—Extra large, bold flowers, full and globular; color, rich, glowing crimson, elegantly flamed with scarlet.

## Baby Rambler or Dwarf Polyanthus Roses

Two-year-old plants, not prepaid, 60c each

BABY RAMBLER—(Dwarf Bush Type)—Not over 18 inches high, producing large trusses of light crimson flowers; clean dark green foliage.

PINK BABY RAMBLER—(Mrs. W. Cutbush)
—Clusters of pretty double bright pink flowers;
freely produced in panicles; always in bloom.

CECILE BRUNNER — Bright, rose, yellowish in center; very sweet; dwarf polyanthus.

# Single Roses Two-year Only—Not prepaid

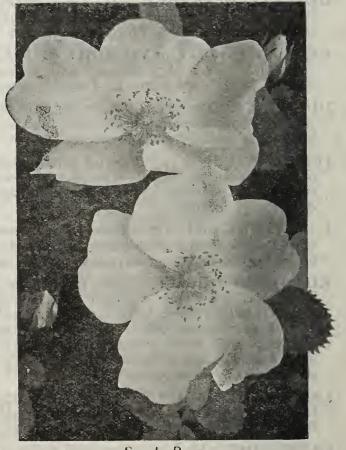
AUSTRIAN COPPER—(A. B.)—A beautiful single rose of bright reddish copper. Each 60c

IRISH ELEGANCE — (S.) — Large, single, golden bronze flowers of great beauty, free and constant bloomer, with deep bronze foliage.

Each 60c

IRISH FIREFLAME—(S.) — Deep orange splashed crimson, changing to fiery orange crimson; buds hold shape long time. Each 60c

IRISH SIMPLICITY — (S.) — Almost single; pure white, of immense size, with golden yellow anthers resembling a huge water lily. Ea. 60c



Single Roses

DIAMOND LAWN AND ROSE FERTILIZER worked into the top soil early in the season—about a handful to each established plant—will produce a vigorous growth, more and better roses. See Page 59

## Climbing and Pillar Roses

Two-year-old bushes, field grown, not prepaid, 60c each; doz \$6.00 (except as noted).

AMERICAN PILLAR—(Wich.)—A beautiful bright pink with yellow anthers.

BEAUTY OF GLAZENWOOD-Bronzed yellow or copper and fawn color. Hardy and free.

CLI. AMERICAN BEAUTY — Rich crimson color; delightful fragrance; very free bloomer.

CLIMBING BELLE SIEBRECHT —(C. H. T.)—Flowers identical with bush type; vigorour climber; hardy.

CLIMBING CECIL BRUNNER—Clusters of pretty pink flowers, especially beautiful in bud CLIMBING KAISERIN (Mrs. Robert Peary)

—Flowers large, ivory white, of heavy texture. \*CLIMBING LADY ASHTOWN — Vigorous climbing sport of this valuable rose.

CLI. MADAME CAROLINE TESTOUT -Immense globular flowers of the same beauti-

ful shade of pink as seen in the bush sort. \*CLI. SUNBURST—A splendid climber of the same beauty and freedom of bloom as the bush form of this popular rose. Each \$1.00

CLIMBING METEOR — Rapid grower; rich,

dark, velvety crimson flowers.

DUCHESS D'AUERSTADT—Fine rich yellow, flowers are large, full and open freely. Ea. 75c GAINSBOROUGH—Graceful flower of dainty

shell-pink color and satiny finish. Very hardy. SILVER MOON-Magnificent large white semidouble blooms of good substance with golden stamens. Flowers are carried on long stems. Foliage is abundant, delightfully fragrant, of a bronze green color and is immune to mildew. MADAME ALFRED CARRIERE—Full flowers, very double and sweet; color rich creamy white, faintly tinged pale yellow and blush.

MARECHAL NEIL—A magnificent deep golden yellow variety; so famous as to need no desscription; finest of its color. Each 75c

PAPA GONTIER -(T.) — A 'Native Sport" from this favorite variety.

PILLAR OF GOLD — Rich, golden yellow suffused copper and pink. Flowers are full, of fine form and delightfully fragrant. They are borne freely in clusters of from 5 to 10.

\*PINK CHEROKEE—Lovely single blossoms 3 to 5 inches in diameter, saucer shaped and of a beautiful shade of light pink.

REVE D'OR (Climbing Safrano) — Color apricot yellow, with orange and fawn tints; petals of superb and delicate texture.

\*WHITE CHEROKEE—Strong erect grower Large, pure white flowers borne profusely.

DR. VAN FLEET—Large, fully double blooms of a dainty flesh pink with rosy center. Flowers of perfect form with reflex petals and are carried on long stems, making this a desirable variety for cutting. Foliage is luxuriant bronze green.

\*WICHURIANA ALBA—Pure white. Single with yellow anthers. Ideal for pillar or rock work. Each 60c

## The Popular Rambler Roses

The Rambler Roses are strong, vigorous climbers, growing ten to twelve feet high in one season.

Two-year-old plants, not prepaid, 60c each; doz \$6.00.

FLOWER OF FAIRFIELD—Brilliant crimson, base of petals white; a splendid grower and a great improvement over the old type.

PHILADELPHIA RAMBLER — An improved type of the favorite Crimson Rambler; color deeper and more brilliant; flowers double.

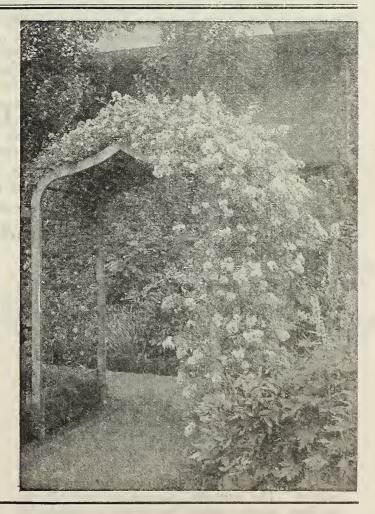
\*VEILCHENBLAU (Blue Rambler) — Large trusses of semi-double flowers, opening pink, but quickly change to a voilet, or steel blue.

DOROTHY PERKINS — Polyanthus type; a beautiful bright shell-pink; large double flowers.

RED DOROTHY PERKINS - Fine crimson rambler; glossy green foliage; never troubled with mildew. Flowers very double.

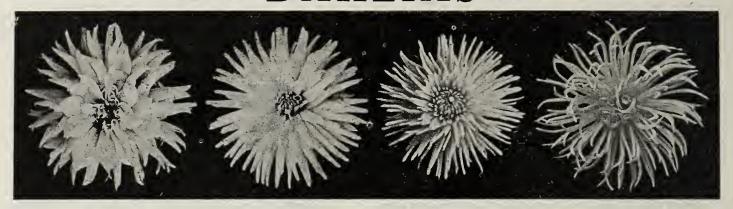
TAUSENDSCHON—A lovely shade of soft pink, free and vigorous; splendid foliage.

\*YELLOW RAMBLER—Pure, bright yellow same type and growth as Crimson Rambler.





# DAHLIAS



In the selection of Dahlias only those varieties of known merit should be considered. The great Dahlia Specialists of Europe and America have set a high standard, established by their years of comparative trials and you will have greater satisfaction and better values from their tested varieties which we offer, and which have been officially recognized, than you can possibly obtain from untried varieties of doubtful origin.

OUR TRIALS ARE VERY EXTENSIVE and are conducted by a practical Dahlia expert of wide experience. All tests are made in the field without irrigation and the Dahlias we list represent the "survival of the fittest," the best of the standard varieties and meritorious novelties of the most famous producers, varieties that are recognized the world over. They are true to name, erect bloomers and good keepers.

IT IS IMPORTANT that your Dahlias be recognized varieties and true to name. If not, you cannot hope to exhibit them successfully.

#### Culture

DAHLIAS will grow to perfection in any good garden soil, preferably one that contains a little sand. Plant as soon as the frost is gone and the ground warm, cutting the tuber to a single strong eye, and placing it on its side at a depth of about 6 inches, in ground that has been previously well cultivated. An excellent way to start Dahlias is to sprout the tubers in a green house and set out the rooted plants. These are generally believed to give more and better flowers, but is more trouble than planting the bulbs. Rows should be four feet apart, plants 18 inches to 3 feet apart in the row, depending on whether planted for a hedge or for specimen plants. Cultivate thoroughly until ready to bloom, then deep tillage must cease and only the surface be lightly stirred, as deep cultivation at this time is fatal to blooming. Tall varieties should be staked.

If you use commercial fertilizer, do not apply until the plant starts growth, then work it into the top soil, 5 or 6 inches from the plant. Bone meal is an excellent fertilizer for Dahlias but must be applied early, as it is slow in action. When the plant is well up, say 6 to 10 inches, pinch off the top, leaving 2 or 3 joints. This will cause it to branch out into a more sturdy, bushy growth. Water freely.

## FINEST CACTUS DAHLIAS

From comparative tests in the field we have selected the following as being the best of their types and color. This list contains many of the newest Dahlias as well as the best of the older ones.

Prices 25c DAHLIAS \$2.50 doz; 40c DAHLIAS \$4.00 doz 50c DAHLIAS \$5.00 doz

Write for Prices by the Hundred

#### Red and Shades

Each 35c with long CONQUEST—Deep wine-crimson, twisted petals. Long stems. Each 35c CARMINE BLUSH—Variable from carmine to Each 35c brilliant red, to delicate pinks with blush suffusions; large and free blooming, long stems. Each 35c DREADNAUGHT—A giant flower, of deep crimson maroon; good keeper. Each 35c GARIBALDI—Brilliant rich scarlet, darker toward center with back of petals shading lighter. Long curled and twisted petals. Each 60c GENERAL BULLER—A medium sized Dahlia, rich, deep crimson color, tipped white. Ea. 35c KALIF—A giant flower, color a brilliant pure scarlet. The immense blooms are freely borne on long, strong stems and make a wonderful display. Each 60c

AMOS PERRY-Rich red, very free, good.

MARIE PURRIER—Large brilliant blood-red flower, with slender dainty incurved petals.

MRS. FERDINAND JEFFRIES — Immense deep velvety garnet red flowers. Each 50c MINNIE BIRGLE—Bright, rich, red. Each 35c

MRS. SUZANNE B. HOLMES — A superb dark crimson-maroon of finest form. Each 35c

MARGUERITE—An intense scarlet, very free bloomer, good stems. Each 30c

RENE CAYEUX — Brilliant geranium red.

Dwarf compact growth suitable for hedge.

STANDARD BEARER—A very free flowering variety of brilliant rich carmine color. One of the best.

Each 35c

THE IMP—The darkest Cactus Dahlia, petals long and incurved claw-like. Each 35c

## CACTUS-DAHLIAS—Continued

### Yellow and Shades

CREPUSCULE—Pale orange center shading to deeper, more brilliant coloring at points of outer petals. Early and very free flowering.

Each 35c

DR. ROY APPLETON — The finest of the straight petal type; a beautiful light lemon yellow, merging to light salmon. Each 35c

FALCON—Beautiful incurved petals of amber yellow shading to a reddish bronze at tips.

Each 50c

F. W. FELLOWS—One of the largest Cactus Dahlias, blooms freely on long stems. Orange with narrow straight petals. Each 50c

GOLDEN WAVE—A magnificent, clear, deep yellow; petals long and narrow. Each 50c

IVERNIA—Bright salmon fawn. Each 35c

JOHANNESBERG—A giant golden yellow of great brilliancy; long stems. Each 50c

MODEL—Clear waxy yellow with a delicate plum blush sheen over tips of petals. Each 40c

NEW YORK — Color orange-yellow center, shading off to deep bronze-salmon. Each 35c

SALMON ROSE — Petals broad and curled, light salmon rose, with gold center. Each 35c

STERN—Deep pure yellow, very fine. Each 35c

WODAN—Flowers of largest size; color orangerose shading to old gold center. Each 50c

YELLOW KING—Deep sulphur-yellow.

Each 35c

YELLOW PRINCE—A grand new yellow of Marechal Neil shade. Flowers extra large.

Each 50c

### Variegated and Shaded

MAD. LOUIS CHARVET — Straight, narrow pointed petals, intermixed red and white.

Each 40c

#### Pink and Shades

**COUNTESS OF LONSDALE**—Rich, rosysalmon, very floriferous; one of the best.

Each 35c

ELLA—Deep rose of splendid cactus form. Without a rival in the deep pink shades. Each 35c

GWENDOLINE TUCKER—A dainty rose color with lighter center, petals incurved. Each 50c

KRIEMHILDE—Blush pink; a prize winner; one of the finest dahlias. Each 35c

ROSE BEAUTY—Color is bright rose with deep rose center; full flower. Each 35c

**SWEET BRIAR** — Strong stems carrying a splendid flower of an exquisite shade of pink. A free and continuous bloomer. **Each 35c** 

#### White

KING WHITE—Dazzling snow-white of magnificent form. Each 50c

MRS. WARNAAR — New Hybrid Cactus, creamy white, tinted delicate pink; one of the best to date. Each 60c

#### Lavender

INDOMITABLE—Long, narrow petals, perfectly incurved; color rosy mauve. Each 50cMAUVE QUEEN—A beautiful true lavender

with lighter center, petals incurved. Each 35c

Single Dahlias

CRAWLEY STAR—Clear lilac-pink with crimson base. Each 25c

GOLDEN CENTURY—Brightest yellow, long stems. Each 25c

OWEN THOMAS — Crimson scarlet, tipped with golden yellow. Each 25c

TWENTIETH CENTURY — Pure white at base and tip, center rose-pink. Each 30c

## **Decorative Dahlias**

AVALANCHE—Pure white, large full flowers of free flowering habit. Each 40c

**DELICE**—Lovely shade of pink, broad petaled flowers. **Each 35c** 

JACK ROSE—Crimson red. Each 25c

JEANNE CHARMET—A beautiful lilac pink; each petal edged with white. Each 35c

LE GRAND MANITOU — A white ground splashed and striped with violet red. Each 35c

PRINCESS JULIANA—Pure white, of perfect form; foliage is rich dark green. Each 50c

NEVADA—Large pure white of perfect form. Free bloomer, strong stems. Splendid for cut flowers. Each 35c

REISEN VON STUTTGART—A bright blood red; of great size and beauty. Each 35c

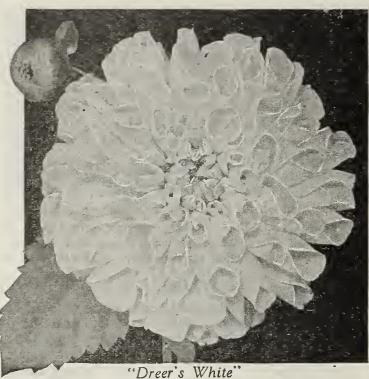
souvenir de Gustave do de la mificent rich scarlet, often growing 9 inches in diameter; constant bloomer. Each 35c

YELLOW DUKE — A splendid flower of fine size and form. A yellow type of the famous White Grand Duke Alexis. Each 35c





## SHOW DAHLIAS



bir per GRA cle der JOH

A. D. LIVONI — This grand old variety still remains the best pink of its type. Each 25c

DREER'S WHITE — A magnificent white of largest size, great purity, long stems. Each 35c

**GRAND DUCHESS MARIE**—A lovely combination of buff and orange with lower side of petals edged pink. Profuse bloomer. **Each 35c** 

**GRAND DUKE ALEXIS**—A giant glistening, clear white flower, with the daintiest of lavender flakes or markings near center. **Each 35c** 

JOHN BENNETT—Yellow, deeply edged scarlet; very free bloomer; desirable color. Each35c

MISS HELEN HOLLIS—One of the best deep scarlet. Long, strong stems and luxuriant foliage. Each 50c

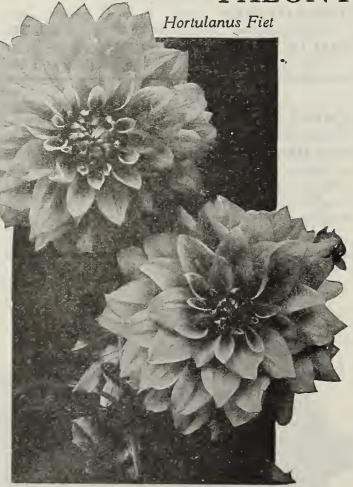
NORMA—Pure old gold with delicate plum suffusion that adds to its brilliancy. Each 25c

THOS. PENDRED—Soft shade of golden yellow; blooms freely and continuously. Each 35c W. W. RAWSON—Pure white overlaid with amethyst blue. Each 50c

WHITE SWAN—Pure white.

Each 35c

## PAEONY FLOWERED DAHLIAS



QUEEN EMMA—A bright pink with darker pink penciling and narrow yellow shading in center of petals.

RHEINGAU—Large pointed petals, dark brilliant scarlet; immense size.

ZEPPELIN—Rich, bright lavender, largest size; well poised on big strong stems.

Each 35c
SIGNORA—Vivid scarlet with yellow center, profuse bloomer.

VAN DYCK—Large graceful flower of lovely salmon pink with heliotrope suffusion.

Each 50c
WALKURE—Pure yellow free bloomer. Each 25c

The rare new shades, brilliant coloring and giant size are not found in any other class of flowers. Paeony Dahlias bloom more freely than other dahlias and are very vigorous, growing to a height of 5 to 6 feet.

ANDREW CARNEGIE—Salmon-pink, shaded bronze; petals somewhat flat. Each 35c BERTHA VON SUTTNER — Salmon-pink, shaded yellow, erect, elegant form. Each 35c DOMINION—Bright rosy red, shading rose-

pink toward edges; ornamental foliage.

GEISHA—Bright yellow ground color; heavily marked with clear, bright red, shading toward points of petals into clear yellow; the massive petals are twisted and curled in the most fantastic manner.

Each 50c

GERMANIA—A rich, dark, velvety wine color, with suffusion of golden-yellow toward the edges of petals.

Each 35c

GIANT EDELWEISS—A pure glistening velvety white, with brilliant golden yellow center.

Each 40c

HORTULANUS FIET—Bright salmon rose on old gold and orange, lighter towards tips. A magnificent flower. Each 50c

HORTULANUS WITTE—A wonderful giant white of great beauty; large stems. Each 50c

JAN OLIESLAGERS — Clear, deep yellow flowers on long erect stems. Each 50c

KAKADEE—Pale yellow center changing to almost white at end of petals. Its strong, erect stems and lasting qualities make it a splendid cut flower. Dwarf habit. Each 35c

MADAM VON BYSTEIN—A magnificent lilac lavender, changing to light blue. Each 50c MME. BUTTERFLY—Soft salmon rose, haveach 50c

ing a rich golden sheen. Each 50c OREGON BEAUTY—Bright fiery scarlet with golden sheen. Free blooming. Each 35c PHILADELPHIA — Rich reddish-purple, suf-

fused and marked with white. Each 35c

# **GLADIOLI**











EXQUISITE coloring, vigor, ease of cultivation and freedom from insect pests and diseases are making Gladioli universal favorites that should have a place in every garden. They come into

bloom at a season when there are few other flowers.

CULTURE—Gladioli may be planted as early as the ground can be worked or as late as June. A sunny situation is preferred. Plant to a depth of 3 to 6 inches, depending on the size of the bulb. Largest bulbs are not always best, as some varieties do not produce large bulbs. Any garden soil will give satisfactory results, but if well enriched, cultivated and freely watered when bulbs first show, Gladioli will amply repay you for this additional care. If cut when the first bud opens and put in water, the flowers will open perfectly, keep for many days, and coloring is richer and more delicate than if left to open on plant

### Beautiful New Gladioli

AMERICA—Exquisite shade of flesh pink-tinted lavender. Each 6c, doz 60c, 100 \$3.50

AUREOUS—The largest, finest yellow. Deeper yellow center with dark red blotch.

Each 20c, doz \$2.00

BARON HULOT—A brilliant indigo blue, free flowering and very attractive. Ea 10c, doz 90c

BLUE JAY—A true blue of great beauty, lighter in color and a larger, more attractive flower than Baron Hulot. A rare novelty.

Each 35c, doz \$4.00

"GLORY"—A delicate cream pink tint with an attractive crimson stripe in the center of each lower petal. From 4 to 8 flowers open at the same time, petals are exquisitely ruffled and fluted.

Each 10c, doz \$1.00

GLORY OF HOLLAND—White with inner throat slightly marked red, sometimes tinged delicate pink. Each 10c, doz \$1.00

GOLDEN KING—Bright sulphur yellow with an intense crimson patch on the lower petal. One of the best yellows. Each 15c, doz \$1.50

HALLEY—Salmon pink with creamy white blotch. Large flower and early bloomer.

Each 10c, doz \$1.00

Each 15c, doz \$1.50

LILY LEHMAN—Brilliant light pink shading to blush white. Flowers resemble a lily. One of the best sorts. Each 20c, doz \$2.00

MRS. FRANCIS KING—Pleasing light scarlet; fine for forcing. Each 6c, doz 60c, 100 \$3.50 MRS. FRANK PENDLETON—A clear brilliant salmon pink with bright blood-red blotch in throat on lower petal. A superb flower of

largest size.

NIAGARA—Lovely deep cream, shading to a canary yellow on the two lower inside petals. The giant flowers open freely; has broad, dark green foliage.

Each 15c, doz \$1.50

MEPHISTOPHELES—A striking combination of red, black and yellow. Should be in every collection. Each 30c, doz \$3.00

PANAMA—A new seedling of America, identical except in color, which is much deeper pink. Spike long and the large flowers are well arranged.

Each 15c, doz \$1.25

PEACE—Large flowers of good form; almost pure white; strong grower. Each 15c, doz \$1.50 PINK PERFECTION—Clear, soft pink. The

PINK PERFECTION—Clear, soft pink. The large graceful flowers bloom freely. Most wonderful pink ever introduced. Ea. 15c, doz \$1.50 PRIMULINUS HYBRIDS—Dainty, lovely

PRIMULINUS HYBRIDS — Dainty, lovely flowers of rare grace and beauty; in shades of yellow, orange, cream, and an occasional pink. Very distinct and attractive.

Each 10c, doz \$1.00

PRINCIPINE—An intense scarlet, with white throat.

Each 10c, doz \$1.00

ROUGE TORCH—A charming French variety.
Blush with crimson, velvet throat, free and vigorous.

Each 15c, doz \$1.50

ROSELLA—The lovely large orchid-like flowers are a dainty rose color, with purple and white markings.

Each 15c, doz \$1.50

WAR—A deep, rich, velvety crimson self color. Many consider "War" the most striking Gladiolus ever produced. Our stock is extra fine, and everyone should plant them.

Each 15c, doz \$1.50

WILLIE WIGMAN—Creamy white with red throat, large. Each 10c, doz \$1.00

### Mixed Gladioli

DIAMOND MIXTURE—Select named varieties with choicest Childsi Hybrids.

Each 7c, doz 75c, 100 \$5.00

**GLADIOLI, FINE MIXED**—A large variety of fine flowers unequaled for the price.

Each 5c, doz 50c, 100 \$3.00

GLADIOLI make splendid and attractive displays planted in the foreground of shrubbery—in groups on the lawn—in the perennial border or in combination with geraniums or cannas—and once planted will increase and bloom from year to year with very little attention.



# PAEONIES—Double Herbaceous



HE development and increase in popularity of the Paeony has been unparalleled among flowers, and the profusion and duration of bloom, combined with handsome, massive foliage, accommodating habit, and easy culture, render them one of the most popular hardy plants grown for lawn and garden decoration.

Paeonies are always free from disease and insects do not bother them. They are hardy, thrifty growers,

bloom freely, and nothing will add more to the beauty and attractiveness of the lawn.

CULTURE—Paeonies may be planted in the Fall or Spring and a sunny situation is best, but they will do nicely in partial shade. While spring planting is very common, September and October are the best planting months, and Fall planted roots will bloom the tollowing June.

-A heavy loam that holds moisture is the ideal soil and should be well prepared with a liberal supply of Bone Meal. Well rotted manure is necessary where the soil is deficient in humus, but should be used with caution as the Paeony is often destroyed by manure coming in contact with the crown. The roots should be set in the ground so the crowns are at least three inches below the surface. For permanent plantings Paeonies should be set from three to four feet apart each way.

 ${f WATERING-}$  If the weather is dry during the growing period, water freely, being careful to avoid

wetting the bulbs or 'owers.

After blooming, the plants will require very little watering and the seed pods and old flowers may be cut off but the foliage should not be cut down until late Fall.

APPLE BLOSSOM-G. and petals white and light pink, like an api le blossom. An early Each 50c and free bloomer.

ASA GRAY—Very large. Semi-double. Pale to deep lilac. Mid season. Each \$1.00

AUGUSTIN D'HOUR — Dark, brilliant solferino-red, silvery reflex. Medium to large, bomb-shape; showy bloom; medium height. Felix Midseason. (Similar in color to Crousse.) \$1.25

AVALANCHE—Very large and full, milky white. Strong grower, fragrant. Mid season. Each \$1.00

BARONESS SCHROEDER—Large, globular, rose type. Flesh-white. Very fragrant. Midseason.

COURONNE D'OR-Superb white flower; immense size, reflects yellow, center petals, bordered carmine, fragrant, vigorous; late. Ea. 75c

DELACHEI—Large, full flower of a deep rich crimson, purplish tone; very fragrant; medium to late

DELICATISSIMA—Light rosy apricot, sometimes margined carmine red. Mid season.

Each 50c

DOCTOR BRETONNEAU—A delicate lilac pink, vigorous grower and free bloomer. Fragrant. Above medium size, bomb shaped blossem. Each 50c DORCHESTER—Large, compact, rose type. Pale hydrangea-pink. Late

DUC DE WELLINGTON-Large, bomb, with white guards and sulphur center. Fragrant. Late.

DUCHESSE DE NEMOURS-Medium size. Pure white crown, sulphur-white collar, no crimson flecks. Fragrant. Early.

DUKE OF DEVONSHIRE-Very large, medium light pink, shaded to deep rose, with wide outer petals.

EDULIS SUPERBA—Rose pink, delightfully fragrant. An early bloomer, ready for Decoration Day.

\*EUGENE VERDIER—Very large, light rose, shaded salmon, full sweetly scented, distinct from Eugenie Verdier, Late. Each \$2.00

FELIX CROUSSE—Full double, flaming red. good bloomer. Mid season. Each 75c

FESTIVA MAXIMA—Immense double flowers, pure white tipped or flaked with a small crimson spot at center. Early. Each 60c

FLORAL TREASURE—Large, pale lilac-rose, good for cutting. Mid season. Each 75c

FRAGRANS—Late; color deep rose; fragrant prolific bloomer; tall grower. Each 50c

GLOIRE d'BOSKOOP—Large globular flower of rich pink shading to lilac. Mid season. Each 75c

## PAEONIES—Continued

- GLORY OF SOMMERSET—Large, bomb type. Beautiful soft pink. Fragrant. Midseason. \$1.00
- GOLDEN HARVEST—Pale Pink to peach blossom pink, white crown. Rather dwarf type. Not so strong and free as Jeanne d'Arc, although called by some identical. Midseason. 75c
- GRANDIFLORA—Very large. Blush white, Very fragrant. Tall, erect, strong grower. Very late. Many consider this the best late variety of its color. Each 60c
- \*HUMEI—Enormous, compact, globular, cherry pink, cinnamon fragrance, weak stem, very late, good landscape variety. 50c
- JENNY LIND—Large, bomb type. Hydrangea pink. Fragrant. Midseason. \$1.00
- KARL ROSENFIELD—Very large, globular, compact, semi-rose type. Dark crimson. A very brilliant and striking variety. Slightly fragrant. Midseason. \$4.00
- LA MARTINE—Large rose type, carmine rose bordered silvery white. Late. Price 40c
- LA TULIPE—Medium large. Lilac white fading to creamy white with outer guard petals striped and center petals tipped with carmine. Late. Each 50c
- L'ECLETANTE—Bomb type, midseason. Flowers very double and full, color deep, brilliant, velvety crimson. \$1.00
- L'INDISPENSABLE—Full, globular rose type. Lilac-white. Bud slow to open. Late midseason. \$1.00
- LORD KITCHENER—A beautiful flower of rose type; a brilliant cherry-red. A free bloomer and a strong grower. Said to be the earliest of all.

  \$3.00
- MADAME CALOT—Large, rose type. Pale hydrangea-pink. Fragrant. Early. \$1.00
- MADAME CROUSSE—Medium size, globular, crown. Pure white, center flecked crimson.

  Midseason. 75c
- madame Lebon—Large, compact, globular, rose type. Cherry pink to analine red. Buds tight, opening slowly. Late. \$1.00
- MAD. BREON—Flowers outside flesh, center lemon, occasionally carmine tipped when first open; entire flower gradually changing to pure white. Early. Each 60c
- MAD. DE VERNEVILLE—Broad outside petals, sulphur white, with center rosy white, sometimes edged carmine, and beautifully imbricated. Early. Each 75c
- \*MARECHAL VAILLANT—Enormous, dark mauve pink, very tall; very late. \$1.00
- MARIE JACQUIN—Rose-white, fading to lilac-white; wide incurved petals, showing an open center filled with yellow stamens like a water-lily. Midseason. \$1,00

- MARIE LEMOINE—Large, compact, rose type flower. Pure creamy white. Late. \$1.00
- MARIE STUART—Very early; Soft pink with lighter center; Anemone shaped flowers. Ea 50c
- MME. EMILE EMOINE—Glossy white, tinged pale pink and covered with tiny dots of deeper shade. Large, globular, rose type; a strong grower, good bloomer. Midseason \$2.00
- MODELE DE PERFECTION—Large, compact rose type. Guards and collar light violet-rose, very wide, high center petals shaded darker. Late. Each 75c
- MONSIEUR JULES ELIE—Bomb type, pale lilac-rose shading lighter. Early. Ea. \$1.00
- MODESTE GUERIN—Medium Bomb type, solferino red, good for cutting. Mid season. Each \$1.00
- MONSIEUR KRELAGE—Dark Solferino red, with silvery tips; slightly fragrant; large, compact, flat flower; a free bloomer and erect grower; 30 to 33 inches high. Begin blooming June 1st.

  Each 75c
- \*MME. DUCEL—Immense, globular, typical bomb, light mauve rose, with silvery reflex, fragrant, vigorous, free bloomer. \$1.00
- MME. GEISSLER—Enormous, compact, globular, rose type bloom, violet rose, tipped silver fragrant, rather spreading habit, mid-season.

  Each \$1.00
- NOBILISSIMA—Uniform deep violet-rose. Large, flat, rose type; erect, strong growth. Late midseason. 60c
- OFFICINALIS ALBA—Blooms with Officinalis Rubra. Light pink at first, fading to white as flowers grow older. Each 40c
- OFFICINALIS ROSEA—Beautiful bright pink globular flowers, blooms with Officinalis Alba and Rubra, producing fine flowers for Decoration Day.

  Each 40c
- OFFICINALIS RUBRA—Bright scarlet crimson; double and globular. Early. Each 40c
- POTTSI-ROSEA—Rich deep rose, lighter center. Each 50c
- QUEENS PERFECTION—Creamy white, large, full and attractive. Early. Each 40c
- QUEEN VICTORIA—A full, strong, white with yellowish-tinted center; very popular. Ea 50c
- RUBRA SUPERBA—Deep carmine crimson, shading to violet. Very large and double. Very late. Each 75c
- RACHEL—Dark vivid red, with a few gold stamens mixed in corolla. Late. \$1.00
- RUTH BRAND—Large compact bomb, uniform lavender pink, fragrant. Each \$3.50
- SARAH BERNHARDT—Large flower of perfect form. Apple-blossom pink, with each petal silver-tipped. One of the finest. Free bloomer and strong grower. Very fragrant. Late midseason \$3.50
- VICTOR HUGO—Bomb type. Brilliant carmine-red. Late. \$1,00



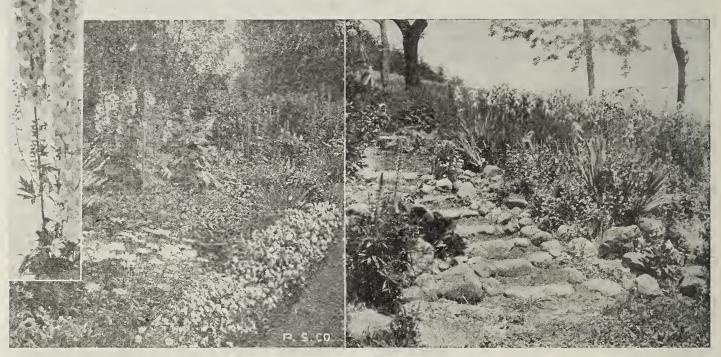
## PERENNIAL BORDER AND BEDDING PLANTS

WE offer well-rooted specimens that can be safely packed and promptly delivered in perfect condition. If you contemplate large plantings or special effects let us know your plans and requirements. We can supply in any quantity for every requirement at lowest prices.

By proper arrangement cut flowers and a grand garden display can be obtained throughout the season. The great advantage in planting perennials is their permanency

and the fact that they require so little care.

PLANTS MARKED 20c, \$2.00 doz; 25c, \$2.50 doz, F. O. B. Spokane



Each 20c

ACANTHUS—(Bears Breech)—Very ornamental, having a tropical appearance. The foliage being attractive, the leaves about 2 feet long and the rose colored flower spikes 3 feet high appear in August and September. Each 25c ACHILIEA—(The Pearl)—Pure white flowers,

ACONITUM (Monkshood or Helmet Flower)-Napellus—Large dark blue flowers, 4 feet high, invaluable for semi-shady places.

2 feet high.

ALYSSUM SAXATILE COMPACTUM-Bright yellow corymbs; showy Spring flowering plant—also flowers in Autumn. Each 20c

ANCHUSIA ITALICA—Tall growing hardy plant, with pretty blue flowers in large Each 25c racemes.

ANEMONE JAPONICA—Beautiful Fall blooming plants. Rose or white.

ANEMONE PULSATILLA -Each 20c

- An ideal rock plant, 9 to 12 inches high. Violet or purple flowers April to May. Each 25c, doz \$2.50 ANTIRRHINUM—(Snap Dragon)—Pink, Red,

White, Orange, Bronze, Yellow Tall and Dwarf. Each 25c

AQUILEGIA HYBRIDA—(Columbine)—An old favorite for Spring and early Summer. Blue, violet, pink. Fine for cut flowers. Ea. 25c

ARABIS — (Rock Cress) — Very early Spring flowering plants especially adapted for edging

and borders. Pure white flowers. Alpina Grandiflora—Single. Each 20c Alpina Flore Pleno– Each 25c

AUBRETIA—Pretty dwarf growing rock plants, silvery-green foliage and sheets of flowers in early Spring and Summer. Bougainvillie—Purple.

Each 20c Leichtlini-Pink. Each 20c

ARTICHOKE—Ornamental garden plant, bearing edible buds that develop into giant thistlelike blooms. Each 20c, doz \$2.00

ASTERS, HARDY-Among the showiest of late flowering plants. The colors are dainty blues, shades of red, pink and white. Each 20c

CANTERBURY BELLS - Pink, white, blue Each 20c, doz \$2.00 large clumps.

CHELONE—(Shell Flower)—Barbata—Brilliant rosy color; 2 to 3 feet high. Each20c COREOPSIS—(Golden Sunbeams)—Beautiful

golden-yellow; fine for cutting. Each 20c DAISIES GIANT—Pink and white. Each 20c DIANTHUS—(Hardy pink). Each 20c DORONICUM—Early Spring Marguerite-like

yellow flowers. Fine border plant. Each 20c **ECHINOPS**—(Globe Thistle)—Ritro—Thistle-

like plant with globular heads of deep metallic blue flowers, which can be dried. Flowers in August. 2 to 3 feet. Each 25c

ENGLISH PRIMROSE — Finest sorts, from pure yellow to deepest crimson-maroon; early, low-growing, fragrant. Each 20c

FOX GLOVE—(Digitalis)—Tall Gloxinia Flowered. Pink, White and Blue. Each 20c

GAILLARDIA—(Blanket Flower)—Grandiflora Maxima — Combination coloring of yellow, brown, crimson, orange; height 2 feet; blooms until frost; fine for cut flowers. Each 20c

GEUM — (Attrocinium) — A splendid bed or border plant—18 to 24 inches—bearing freely dainty little double red flowers. Each 25c

GYPSOPHILA—(Baby Breath)—Paniculata— Single and double; thrives during driest weather; elegant rock plants and very useful Each 25c for cut flowers.

## Hardy Perennial Garden Plants—Continued

HELENIUM — (Sun-bride or Sneeze-wort) — very desirable border plant, broad spreading heads of flowers, useful for cutting. Red, yellow, brown. Each 25c

HELIANTHUS—(Hardy Sunflower)—Effective hardy plants for large borders and planting among shrubbery. Flowers golden-yellow.

Multiflorus Maxima—Golden-yellow flowers, July to August.

Each 20c

HELIANTHUS SPARSIFOLIA—Superb new single sunflower of striking beauty; blooms late in the season. Each 25c

HELIOPSIS — (Orange Sunflower) — July and August. Similar to Helianthus but earlier. Dwarf habit, fine for cut flowers. Each 25c

Pitcheriana—Beautiful deep golden yellow flowers about two inches in diameter. Each 25c

HEUCHERA SANGUINEA — Dainty alpine plant requiring shade of a rockery or fernery. The bell-shaped coral red flowers are borne on wiry stems about 18 inches. Each 25c

HOLLYHOCKS—Good soil required, work in well rotted manure; water during dry weather.

New Double and Single—Red, yellow, pink, and white.

Each 20c, 4 for 75c

Large clumps.

Each 25c, doz \$2.50

M YOSOTIS—(Forget-me-not)—Dissitiflora— Little blue star-like flowers. Useful for borders and half shady places. Each 20c

PENTSTEMON—(Beard Tongue)— Hybridum—Large Gloxinia-like flowers, in all colors from white to deep crimson, 2-to 3 ft. high. Ea. 25c

PYRETHRUM—(Persian Daisy)—Of easy culture in any garden soil where there is good drainage and full exposure to the sun. They prefer to be undisturbed for two or three years, bloom in June—Hybridum. Each 20c

RUDBECKIA—(Golden Glow)—Bears in profusion immense double blooms of the brightest, golden yellow; hardy everywhere. Each 20c

SCABIOSA—Handsome border plant.

Caucasica (Blue Bonnet)—A soft shade of lavender, blooms June to September. Stems 18 to 24 inches. Each 25c

**SEDUM**—(Stone Crop)—Suitable for rockery, carpet bedding, etc.

Album—Green foliage and white flowers. Ea. 20c Lydium Glaucum—Glaucous foliage. Each 20c

SHASTA DAISY—(Alaska)—Immense, fluffy white blooms, with golden eyes, from July until late Fall; fine for cutting; splendid border plants.

Each 20c

STATICE—(Sea Lavender)—Valuable for border or rockery, with tufts of leathery leaves and immense candelabra-like heads. They last for months when cut and dried. Bloom June to September.

Incana—White minute flowers. Each 25c Latifolia—Minute purplish blue flowers. Ea. 25c

STOKESIA — (Cornflower Aster) — Cyana — Handsome lavender blue cornflower-like blossoms which measure from 4 to 5 inches across. Desirable as a single plant or grown in beds 18 to 24 inches high, June to Sept. Each 25c

SWEET WILLIAM—Old favorites for beds and borders, assorted colors. Each 20c Newport Pink. Each 25c

TRITOMA (Pfitzeri)—Or Red Hot Poker—Rich orange-scarlet, blooming from mid-Summer to latest Fall; spikes 3 to 4 feet high; winters best if lifted and stored in sand. Fine for borders or mass effects.

Strong flowering roots 25c, doz \$2.50, postpaid.

**VALERIANA**—(Garden Heliotrope)—Decorative plant for the rockery, with strong heliotrope odor.

Officinalis—Rose tinted white flowers during June and July. Each 25c

Coccinea Rubra—Rose-pink flowers; blooms in May; 2 feet high. Each 25c Cocina floralba—Pure white flower tufts. Ea. 25c

VERONICA PROSTRATA—Splendid for rock gardens and edges of borders; color deep blue. Blooms May to August. Each 20c

VERONICA REPENS—(Creeping Speedwell)—
Slender compact plant with blue flowers.
Thrives in the sun where grass will not grow.
Fine for rock work.

Each 25c

VIOLETS—Fragrant plants which grow in half shady places and begin to flower early in the Spring. Double and single—colors violet, blue or white.

Each 20c

WALLFLOWER—Dark and light; single and double; mixed; good subjects for rock garden and Spring bedding. Each 20c

### Larkspur—Delphiniums

HARDY LARKSPUR—One of the most beautiful and useful border plants; vigorous, free-bloom ing and hardy. The varieties we can supply are among the best.

Named Varieties—Fine large 2-year clumps.

**BELLADONNA GRANDIFLORA**—Clear, delicate turquoise; a strong grower.

**DELPHINIUM FORMOSUM**—Dark blue with white center.

HANS DEKKING—Very free flowering sort having flowers of a brilliant cornflower blue.

KING OF DELPHINIUMS — Giant semi-double flowers, deep blue with white eye.

Ea. 25c; doz. \$2.50. Mixed, ea. 20c; doz. \$2.00

MASTERPIECE — Lovely deep gentian-blue and plum. Reflexed flowers of immense size. Tall.

**PERFECTION**—Sky-blue petals suffused with rosy-lilac. Semi-double. Branching habit.

**PRIMROSE**—White sepals, yellow eye, single flowered.

TRUE BLUE—Intense deep blue with black eye. Single flowered tall sort. One of the finest,



## PERENNIAL PHLOX

ARDY everywhere. The marvelous new colors, beautiful foliage and easy culture make this choice flower one of the most desirable for beds, borders or lawn groups where permanent effects are desired. Prices: Strong roots, each 25c, doz \$2.50

ANTONIN MERCIE—Medium; light ground color; upper half of each petal deeply suffused bluish-lilac, large white halo.

ATHIS—Tall magnificent salmon pink, free and continuous bloomer.

COQUELICOT-Scarlet, crimson eye; dwarf.

**DIADEM**—Large flowering, pure white—dwarf.

**ELIZABETH CAMPBELL** — Medium height; bright salmon-pink with lighter shading and dark crimson eye.

EUROPA—Medium; immense trusses of pure white with distinct crimson eye.

GOLIATH—Truly a giant in growth; color bright crimson carmine, deeper eye.

GEO. A. STROHLEIN—Medium bright scarlet with crimson red eye; does not bleach.

HUXLY-Medium; a beautiful lavender.

JEWEL—Dwarf; bright mauve rose with carmine red eye. Superior to Asia.

MME. PAUL DUTRIE—Tall; delicate lilac rose reminding one of beautiful soft pink Orchids.

MRS. JENKINS—The best tall early white for massing.

RHEINLANDER—Very large bright salmonpink florets in large panicles. Tall growing.

R. P. STRUTHERS—Tall, rosy carmine, with claret-red eye; fine.



Perennial Phlox

SELMA—Tall; large flower; pale rose mauve with claret eye.

SUNSHINE—Dwarf; large, aniline-red with crimson-red eye and light halo.

THOR—Dwarf; beautiful rich salmon-pink with scarlet suffusion; eye aniline red with light halo-VON LASSBURG-Medium; one of the largest flowered purest whites in cultivation.

### Phlox for Rock Work

PHLOX SUBULATA—(Moss or Mt. Pink)— Early Spring flowering; useful for carpet bedding; cemetery planting or rockeries.

PHLOX DIVARICATA CANADENSIS -Blooms early April, has large, beautiful lavender flowers; grows 10 inches high.

# **FERNS**

## Nephrolepis or Boston Ferns

Price small plants, 25c; from 4 in. pots, 75c; 5 in. \$1.50, postpaid. Specimen plants, \$1.50 to \$3.00, F. O. B. Spokane.

SCOTT FERN—(Nephrolepis Scottii)—Identical with the original Boston type, but is dwarfed with a more compact and bushy habit of growth.

TEDDY JUNIOR—New Dwarf Fern. A sport from the famous Roosevelt Fern. Compact in form, and a rapid grower, producing about four times as many fronds as any other fern. BOSTON FERN—This is the original and well known type of "Sword Fern."

N. ROOSEVELT—Resembles Boston Fern, produces more fronds, making a bushier plant.

OSTRICH PLUME FERN—(Nephrolepis Whitmani)—Beautiful new sport from the well known Boston Fern.

## New and Popular Ferns

ASPARAGUS SPRENGERII—(Emerald Feather)—Handsome evergreen trailing plant; its beautiful sprays of lovely green, feathery foliage can be cut freely.

Nice plants, each 20c; large plants, 35c to 50c

FOR FERN DISHES—Attractive assortments, sufficient for 5 to 6-inch pans.

75c to \$1.00, postpaid

ASPARAGUS PLUMOSUS—(Climbing Lace Fern)—A finer and more delicate plant than the Sprengerii, but hardy and easily grown. Nice plants, each 20c; large plants, 25c to 30c

MAIDEN HAIR—(Adiantum Croweanum)— Very valuable to florists for cutting, grows freely under almost any condition inside.

Good plants from 4-inch pots, \$1.00 postpaid



## PALMS AND ORNAMENTAL PLANTS

PALMS lend their surroundings an atmosphere of elegance and completeness, and with proper care will thrive in any home, making the most magnificent and useful decorative plants.

CARE OF PALMS—Good garden loam, with a little sharp sand, is the best soil for palms, and good drainage is of first importance—do not keep a palm too wet. If you set the pot in a jardiniere put something under the pot to let the water drain through. Never let the water stand around the bottom of the pot. Water thoroughly, but let it drain off, then when the soil begins to look dry give another good wetting. It is important to keep the soil of any pot plant moist—clear through—but not wet like mud. One other important point: Soil must have light; palms and some plants would do well without strong light, but the soil would soon sour and fail to nourish them, therefore, when not actually in use keep them as near the windows as possible, but not in the hot sun.

Bone meal is the best fertilizer; a tablespoonful to a 7-inch pot is a good portion. Dig well into the soil. Apply when new growth shows. Do not repot as long as they are doing nicely. And when you do, transfer gently to the larger pot and fill the soil around the roots, disturbing them as little as possible. Palms do best in comparatively small pots. Shower them with water twice a week and should they show signs of scale, wash with strong soap and water or kerosene emulsion (a pound of soap melted with a half pint of kerosene thoroughly stirred into it). Dilute this with ten parts of water and apply with a cloth or brush.

PHOENIX ROEBELENII—A new and graceful miniature "Phoenix" fully equaling in beauty the Cocos Weddeliana, hardy as the Kentia. Of vigorous, bushy growth.

Choice plants, from 6-inch pots, \$2.00 to \$4.00

**KENTIA BELMOREANA**—A beautiful, strong growing Palm with deep green, crisp foliage; inclined to dwarf and spreading habit; one of the most popular for house culture, as they are very hardy.

Small plants, \$1.00. Large plants, 18 inches up,

\$1.50 to \$5.00 and up.

COCOS WEDDELIANA—The most graceful of all Palms; finely cut foliage of rich deep green; we have fine plants of this most desirable Palm, well established in 4-inch pots, 5 to 7 leaves. Each 75c. Nice specimen plants, \$2.50 up

Aspidistra

Ornamental foliage, plant throwing up shoots which unfold, developing into long, graceful leaves; color a beautiful dark glossy green; give same treatment as hardy palm.

VARIEGATED—Rich, creamy markings.

\$2.50 up





Umbrella Plant

#### Parrots Feathers

Produces long trailing sprays of lovely green, finely cut foliage set in symmetrical whorls; plant in a water tight vase or hanging basket, keeping water standing over the soil surface.

Good roots, each 25c; doz. \$2.50

Umbrella Plant

CYPERUS—(Alternifolia)—A splendid house plant of easy culture; resembles a palm; requires little or no attention, and remains green throughout the year. Keep well watered.

Plants, postpaid, each 25c to \$1.00

Dracaenas

D. INDIVISA—This is the popular hardy Dracaena that is used so extensively for centers of vases, baskets, boxes, etc. Of graceful form, and stands full exposure to sun.

4-inch pots 50c; 5-inch pots \$1.00

Rubber Plant

FICUS ELASTICA—This is certainly one of the best plants grown for decorative purposes; it succeeds well with ordinary treatment.

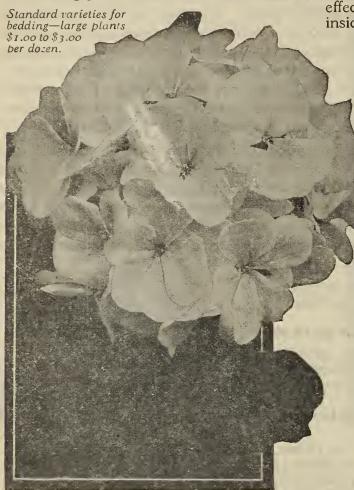
Large plants, each, \$1.50 to \$2.50

Diamond Plant Food For Ferns, Palms and House Plants. Clean, Odorless, Highly orating to all plants; producing luxuriant foliage and larger and more brilliant flowers. A 40c package will feed a dozen large plants a whole year. Special instructions on each package. See page 59.



# GERANIUMS

ERANIUMS are undoubtedly the most popular bedding plant of the time. Their free rapid J growth and continuous blooming qualities keep them in the front rank among the long list of bedding plants. Beds of one color or variety have been very popular of late years, being very



effective in all garden efforts, and for Winter flowers inside nothing is more satisfactory. They are of the easiest culture, requiring to be kept cool and given plenty of air, with an occasional sprinkling of the foliage to clean and freshen it. Keep the roots moist, not too wet, and have good drainage in the pots. No other flower can take their place as a bed or border plant, and inside they grow beautifully throughout the year, making cheery house plants.

Our list of varieties include a number of rarely beautiful novelties as well as the very best standard sorts, and prices are so low as to place

them within reach of everyone.

Single Geraniums

Price, not postpaid, each 35c; doz \$3.50; small plants, each, 25c

ALBION—Beautiful free flowering white variety as pure as driven snow. Always in bloom.

HALL CAINE — Very large round florets in numerous umbels. Light rich scarlet.

HELEN MITCHELL—A pleasing scarlet. LUCILE HILL—Long upright stems; large trusses of beautiful ruffled form; perfectly circular florets of largest size; rich salmon shaded with rose, an excellent grower.

MRS. E. G. HILL—Very large trusses of single

florets; color clear salmon, with a white center.

NUIT POITEVINE — Trusses and florets of grand size; rich, rosy violet; the upper petals feathered with scarlet at their base. distinct and much admired.

## Double Geraniums

Price, not postpaid, each 35c-doz \$3.50; small plants, each 25c

ALPHONSE RICARD—Immense trusses of large round flowers of the most vivid scarlet.

BEAUTE POITEVINE — Very large, semi-double flowers of a brilliant salmon color. One of our best sorts.

EDMOND BLANC—Large trusses of rich purplish violet flowers borne in greatest freedom. One of the finest dark colored sorts.

### Ivy Leaved or Trailing Geraniums

Price, not postpaid, each 35c; doz \$3.50; small plants, each 25c

BALLADE—Large double flowers of a tender lilac color, feathered with crimson.

CHARLES TURNER—Brilliantpink, approaching scarlet. Upper petals nicely feathered maroon. Large trusses. Best of all ivy geraniums. JEAN VIAND—Soft rose color, shaded to white-Magnificent bedder.

MME. RECAMIER — Snow white; strong, vigorous grower; flowers abundantly produced in large trusses.

S. A. NUTT—The best of the rich, dark crimson varieties; trusses massive.

## Pelargonium Lady Washington Geranium

Price, not postpaid, each 35c; doz \$3.50; small plants, each 25c

EASTER GREETING—Remarkable for its free blooming proclivities, equally as fine bedder as a pot plant. The flowers are of a fiery amaranth red, each petal distinctly blotched maroon. A novelty of the greatest merit.

### New Heliotropes

Price 20c each, set of 4, 65c, postpaid

ALBATROSS-Elegant dwarf, bushy growing new variety of great merit; large panicles of pure white flowers in great profusion all season; the best white variety to date.

HEAVENLY BLUE-Large, close panicles of exquisite light blue flowers, with a white eye Grows vigorously and flowers abundantly

LAVENDER QUEEN—Enormous florets, very large trusses of bloom; color, a beautiful shade of lavender, suffused with rosy mauve. A dwarf robust grower and free and continuous bloomer.

ROYAL PURPLE—Very large and fragrant; color deep violet purple, with white eye; very floriferous; highly recommended for bedding

# Choice Novelties in Carnations

CARNATIONS will thrive in any good fresh garden soil. After danger of frost is over, set 10 to 12 inches apart each way, cultivate and water as needed until they begin blooming, then mulch with light manure that has straw in it; plants should be staked or strung to support them. Carnations are easily grown in the house for Winter flowers.



WHITE ENCHANTRESS—A pure white sport from the famous variety Enchantress, having the same general habit and characteristics.

**VICTORY**—Intense scarlet of great brilliancy. Strong stout stems, holding the flower upright.

Standard Everblooming Carnations

Price 15c each, set of 12 fine varieties
\$1.50 postpaid

ALICE—Large nicely fringed, well formed flowers on stout stems. Color light pink with silvery shadings. One of the best sorts we have.

**BEACON**—A bright, deep scarlet; a most perfect color, soft yet brilliant; the flower is of the largest size and perfectly double; nicely fringed; sweet.

BONORA—A beauty; fancy variety of fine size and form, borne on long, stout stems. Color white flaked and splashed with red.

**ENCHANTRESS**—Flowers very large, borne on long stems. The color is a superb shade of flesh pink. An early and continuous bloomer.

HERALD—Flowers very large and massive with finely fringed petals and strong calyx. Stems long and very stout; color bright rich scarlet.

LADY BOUNTIFUL—Pearly white flowers, produced on strong wiry stems. Nicely fringed and very fragrant.

MRS. ACKHURST—Bright salmon pink flowers of the largest size, most perfect form and nicely fringed. Very fragrant.

MRS. C. W. WARD—Simply superb, both in form and color; brilliant dark pink, of immense size.

**PHILADELPHIA** — Greatly admired for its beautiful soft rose-pink flowers. Very delicate and pretty.

**POCAHONTAS**—Rich crimson-maroon flowers of fine size and build. Rarely beautiful variety.

# Twelve Finest Exhibition Chrysanthemums

Price 15c each, set of 12 sorts \$1.25 postpaid

**DR. ENGUHARD**—Flowers delicate pearl-pink; large, beautifully incurved; very double and of exquisite form.

CHRYSOLORA—In our field trials during the past season this variety stood out pre-eminently as the finest yellow in the collection. Large, incurved flowers of elegant form.

CHARLES RASER—Elegant, snow-white, incurved blooms of fine size and build. Comes on long, stout stems grandly clothed with luxuriant foliage. One of the finest new sorts.

uriant foliage. One of the finest new sorts. **CLEMENTINE TOUSET**—Creamy white, delicately laced with lilac and lavender; petals beautifully twisted and arranged. Fine large flower.

GOLDEN EAGLE—Rich, golden yellow, immense size, very double; a grand, well-built flower, with splendid stem and foliage. A sure prize-winner.

**GREYSTONE**—Large reflexed broad petaled blooms of reddish bronze; reverse of petals light buff. Distinct and beautiful.

MAJOR BONNAFFON—Soft, clear yellow, full in the center, eight inches in diameter and nearly as deep; perfect form.

CHIEFTAIN—A beautiful shade of flesh pink. Perfectly incurved flowers of remarkable waxy appearance. Sturdy grower with handsome, leathery foliage.

L'AFRICANE—Very large rich crimson flowers; one of the finest dark colored sorts.

MRS. H. W. BUCKBEE — Fine incurved blooms of ivory white color; very double and lasting. Free blooming and very hardy.

MARIGOLD—Heavy broad incurved petals forming a very large globe shaped bloom of glistening texture. Color golden yellow tinged with bronze. Rank grower, very large foliage.

ROMAN GOLD—In this fine variety we have secured a sort which for richness of color excels all other yellow varieties to date. Comes shaded with bronze in cool weather.

### 6 Beautiful Flowering Begonias

Price 25c each, set of 6 sorts \$1.25 postpaid.

BERTHA CHATEROCHER — Glossy green foliage covered nearly the year round with clusters of bright scarlet flowers.

**COMPTA**—Pointed purplish-green leaves with silvery shadings. Pure white flowers.

ARGENTEA GUTTATA — Handsome erect growing sort, with pointed wine-colored leaves with silvery white spots; clusters of pure white flowers on the tips of the stems.

FOLIOSA — The freest-flowering Begonia we have. Makes a handsome window plant, with its glossy green leaves and bright pink flowers.

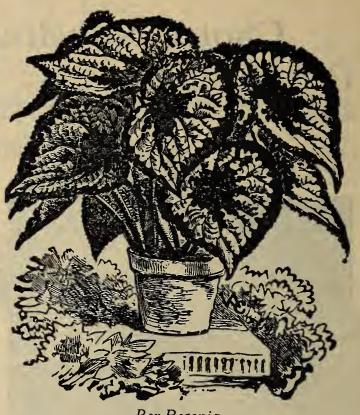
NITIDA ALBA—Waxy dark green ovate leaves and graceful pure white flowers.

PRESIDENT CARNOT — Very large green leaves with purplish cast on reverse sides. Large pendant clusters of light scarlet flowers.

REX BEGONIA

Grown for the beauty of their foliage. The leaves are large, variegated and margined with a peculiar silver-metallic gloss.

Price choice plants each 25c



Rex Begonia

### Free Blooming Fuchsias Price 20c each, set of 6 sorts \$1.00

ELSA—Sepals rose-pink, corolla rosy purple. A fine large bloom.

JUPITER—This is a grand mammoth double flowered Fuchsia; flowers of enormous size, very large, rich purple violet corolla; tube and sepals bright crimson.

MOLESWORTH—Fine, large and elegant form, sepals long and reflexed, pure red; corolla large double white.

SPECIOSA—A winter blooming variety producing very long, narrow flowers, tube and sepals blush-pink, corolla bright carmine.

STORM KING—Superb double white variety

well known to all plant lovers.

TRAILING QUEEN — Tube and sepals-rosyscarlet, corolla violet purple. Of trailing habit of growth, fine for baskets and window boxes.

## Oriental Poppy

The most brilliant and gorgeous of all garden plants; is hardy and succeeds well in any good garden soil, blooming in May and June, they are dormant thereafter until cool weather.

Price each 25c; dozen \$2.50

MAHONY—A magnificent flower of the darkest richest color yet known in a poppy, almost a true dark mahogany. Large, free-blooming.

PERRY'S WHITE—A splendid novelty of the greatest merit. Pure sating white with brilliant crimson marking at base of petals. SALMON QUEEN — Rich salmon-pink with coppery orange suffusion; deepest purplish black center and markings. A rare and splendid flower of largest size.

ORIENTAL POPPY — Red. The old time favorite.

### Popular Annual Bedding Plants

Annual bedding plants are so inexpensive and satisfactory that they should be planted extensively for cut flowers in the home as well as for garden effects. They also make splendid displays in tubs and porch boxes.

We have for early delivery fine large plants that can be set as soon as weather permits and with little care will bloom freely throughout the season. Prices are f.o.b. Portland.

Alyssum\$	.50	Clarkia \$ .50	Larkspur \$ .50	Pinks \$ .50
Asters	.50	Cosmos	Lobelia	Salpiglossis50
Carnations	1.00	English Daisies50	Marigold	Salvia
		Forget-Me-Not 1.00		
Candytuft	.50	Geraniums, 75c to 2.00	Petunia	Verbena50
Centaurea	.50	Heliotrope	Phlox	Zinnias

Plant Annuals in the bulb beds. After the bulbs are through blooming they should be allowed to grow until late summer and the beds can be made very attractive with annual flowering plants without disturbing the bulbs. Forget-me-nots, Petunias, Pinks, Poppies, Verbenas and Candytuft are among the best

# Miscellaneous Flowering Plants

The following includes many useful and beautiful plants for Baskets, Porch Boxes, Bedding and House Plants

ABUTILON ECLIPSE—Handsome variegated foliage; bright pendant flowers of scarlet and gold colors. Fine for vases and baskets. Ea 20c

AGERATUM—Blue-Star—Bedding and border plant growing one foot high. Feathery blue flowers all Summer. Each 20c; \$1.75 per doz

calceolaria—Shower of Gold—Pretty clusters of golden yellow flowers all through the season. Each 25c

CINNAMON VINE—A beautiful vine of rapid growth, suitable for porches, trellises, etc.

Large roots 15c each, 2 for 25c

COLEUS—Fancy Leaved—Coleus are the most important of all the fancy leaved bedding plants. They also make very fine pot plants, especially if you have a warm room to Winter them in.

Each 25c, 6 fine sorts \$1.00

PERSIAN CYCLAMEN, Giant Flowered— Cyclamen have circular fleshy leaves of rich metallic green variously marked with silvery stripes. The flowers appear at the approach of cool weather and continue blooming throughout the Winter. Colors, red, pink, and white. 25c each, larger plants 50c each postpaid

COMMON IVY—Waxy green leaves, strong growing vine for window and porch boxes or for hanging baskets. Each 20c

GENISTA RACEMOSA—Shower of Gold—Its pendent-shaped flowers literally smother the plant during the Spring months, while at other times its graceful dark green foliage makes a very ornamental plant. Easily grown.

Each 35c, add 10c if postpaid

GERANIUM ROSE SCENTED — Cultivated for its sweetly scented leaves. Each 25c

MESEMBRYANTHEMUM SPECTABILIS—
Quilled shaped, succulent leaves with large single thistle-like cerise pink flowers. Fine for baskets, vases or porch boxes. Each 25c

### Mastodon Pansies in Bloom

From April until June we offer our famous "Mastodon" Pansy plants in full bloom. Put up one dozen in a basket. Mailing weight 4 lbs. Price, 75c to \$1.00 per basket, not prepaid.

### Giant Pansies

NEW GIANT PANSIES—These come in the most pleasing shades and color combinations. The flowers are large and of good substance. Plants in bloom ea 5c, doz 50c, post pd 75c

MASTODON PANSY SEED—We offer a limited amount of this hand selected seed, DIAMOND MIXED, and four named varieties. Per pkt 25c, Large Trade pkt \$1.00

PETUNIA, Irvington Beauty — Single-flowered. A very popular bedding and window-box plant. Covered all season with beautiful light pink flowers veined green and shaded to white in the throat.

Each 20c, 4 for 65c

PRIMROSES, New Giant Obconica — The crisp green leaves spring up luxuriantly amid which appear, all season, stout little stalks, each surmounted by a pretty cluster of lavender-pink flowers several inches across. One of the finest Winter blooming house plants for a cool room. Price 25c each, larger plants 35c and 60c each, add 10c if postpaid.

primroses, Chinese Fringed—Are easily grown in a cool room, delighting in a light sandy soil. Flowers are fringed, produced in trusses well above the fresh lively green foliage, which of itself is very handsome. Colors, red, pink, white. Price 25c each, larger plants 45c and 60c each, add 10c if postpaid.

SALVIA—New Zurich — A distinct and attractive variety of compact dwarf growth, of neatly rounded form, closely set with stiffly erect spikes of bright scarlet flowers.

Each 20c, per dozen \$1.75

SMILAX—For using as a green with cut flowers, Fine as a parlor or window plant. Each 25c

VINCA VARIEGATA—Leaves are a glossy green, broadly margined a creamy white. The best of trailing plants for window boxes.

Each 25c, 2 for 45c

VERBENA—New Mammoth—The Verbena is, next to the Geranium, the most popular of all bedding plants. Ass'd colors. Ea 10c, doz 75c

WANDERING JEW—Tradescantia—White and Red Variegated. Each 20c





# CANNAS

ANNAS require a rich, moist soil and should not be planted until all danger of frost is past. They are quick growers and the new flowering sorts bloom continuously until frost. Inexpensive, these charming ornamental plants produce rich tropical effects that cannot be excelled, and the varieties offered are equally valuable for the beauty of their bloom.

Prices, except where noted: Bulbs or plants in season, each 25c; dozen \$2.50, postpaid

CITY OF PORTLAND—A magnificent "Testout" pink with salmon suffusion. Luxuriant green foliage, very vigorous and hardy.

Each 35c, doz \$3.50

BUTTERCUP - Pure bright yellow, Green

FIREBIRD—New. Considered the best redflowered, green-leaved Canna. Flowers are fiery, bright red, borne in immense trusses. Height 4 feet.

KING HUMBERT—The mammoth flowers are a brilliant orange-scarlet, with bright red markings, foliage is broad and of a rich coppery bronze with brownish green markings; 5 to 6 feet.

PANAMA—Rich orange, red yellow edge. Flowers immense size—3 feet.

MRS. ALFRED F. CONARD—Superb salmon pink flowers of large size, freely produced, very luxuriant green foliage; height about 4 feet.

WINTZER'S COLOSSAL—Without doubt the largest flowering Canna, the blooms measuring 8 inches across. Flowers are an intense vivid scarlet of the orchid flowering type. Foliage green; 5 to 6 feet.

WYOMING—Massive orange colored flowers of orchid shape with bronzy-purple foliage. Height 7 feet.

YELLOW KING HUMBERT—Identical with King Humbert in habit of growth. Beautiful yellow flowers dotted with red. Foliage green. Height 5 feet.

### Japanese Iris (Iris Kaempferi)

Japanese Iris are unsurpassed for their brilliant and varied colorings, producing effects that are truly marvelous. Blossoms early summer. Plant three inches deep, about four inches apart; divide the clumps every two years. Fertilize established beds while dormant, using stable manure, but do not apply after growth starts.

We have listed most Japanese Iris under their colors as the names are meaningless to the average grower and are soon lost or confused

APOLLO—A wonderful pure white of good

substance and graceful form.

HELEN—Beautiful violet red with white center. BLUE—A splendid, large, free flowering true blue. SILVERY WHITE—A charming flower, suffused and veined with a soft shade of light blue.

PURPLE—A dark, rich shade of royal purple. LILAC—A dainty light lilac heavily veined with purple.

CRIMSON PURPLE—Fine large purple flower overlaid with bright crimson.

PURPLE MAROON—A deep pleasing shade of purple with maroon suffusion.

#### Double Varieties

DARK VIOLET—Large, shapely flower, beauti-

fully veined and shaded.

BLUE JAY—Tall, rich blue suffused with crimson

DARK BLUE-Brilliant deep blue.

WHITE—Lovely form, large white flower. Very

PRICES: Strong roots, each 30c; per dozen \$3.25

### Hardy Iris

Hardy Iris is one of the best of the early Spring flowers, is hardy everywhere, and if planted in a moist situation or watered freely, will produce magnificent orchid-like blooms of great size and delightful fragrance. Comes in charming color effects in blues, browns, yellows, purples, white.

FAWN—A charming soft fawn yellow.

GOLDEN YELLOW — A deep rich golden yellow, very pleasing.

LOUISE — Sulphur yellow of a bright clear Each 35c, Doz \$3.00

WHITE VIOLET—A rare and beautiful combination, being pure white with lovely violet

LIBERTY—(New)—A wonderful new bright azure blue superior to the popular Pallida Dalmatica. "Liberty" is a sport from 'Juanita,' is a very vigorous and free flowering variety often having 8 to 12 blooms on a stalk with stems 3 to 5 feet.

PALLIDA DALMATICA—Extra large, lovely true lavender, delightful fragrance, free flowering, fine for massing or as a cut flower. MADAM CHERAU—Large white, dainty frilled

blue edge.

LOHENGRIN — Beautiful Cattleyea rose, a large, graceful flower. Each 35c, Doz \$3.00 PRINCESS ROYAL-Soft rose lilac, an un-

usual and attractive shade.

QUEEN OF MAY—A fine bright rose color.

FLORENTINA ALBA — Dwarf snow white, best of its class.

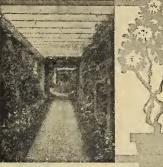
HER MAJESTY—A rich dark bronze color of great beauty.

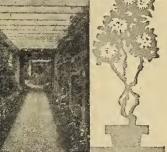
PRICES: Except as noted, Strong roots, each 25c; per dozen \$2.50





# **ORNAMENTAL CLIMBING VINES**





#### Clematis

Clematis is one of the most beautiful and useful climbers. Their magnificent flowers, borne in great profusion in beautiful shades of lavenders, purples, reds and white, make them especially attractive. Clematis requires a rich, loamy soil, but manure should not touch the roots. Cut out the weak and surplus branches in the Spring, and tie the vine up well to its support.

#### VILLE DE LYON-Red.

**HENRYI**—Fine, large, creamy white flowers; a strong grower and very hardy.

JACKMANII—Intense violet purple, with a rich velvety appearance; distinctly veined.

Choice plants of above sorts, each 60c Large plants, each 75c to \$1.00, postpaid

CLEMATIS PANICULATA—A rapid and vigorous grower; it produces sheets of mediumsized, pure white flowers of the most pleasing fragrance; well adapted for covering trellises Choice plants, each 50c to 75c

## Honeysuckle

BELGIAN-Flowers yellow, blotched with red above; blooms all summer, fragrant. Each 75c

JAPANESE-Evergreen; fragrant flowers, white changing to yellow. Each 75c

HALL'S-Evergreen, very popular; white turning to yellow. Each 75c

## Euonymus

RADICANS-A most beautiful evergreen vine of vigorous growth and perfect hardiness. Clings to stone or brick. Most valuable introduction of recent years and takes the place of ivy.

RADICANS VARIEGATA—A beautiful variegated variety of the above. Rich green foliage distinctly marked with white. Fine for low stone walls. Each 75c

## **English Ivy**

Large, thick, shining, leathery leaves; evergreen. Each 35c

#### Wistaria

W. SINENSIS—(Chinese Wistaria)—Grows 15 to 20 feet in a season; has long, pendulous clusters of pale blue flowers in May and June and in Autumn. Choice plants \$1.50 to \$2.50

WISTARIA CHINENSIS VARIEGATED — Yellow variegated leaves, pretty after flowering for the beautiful speckled foliage which is very attractive among other green foliage. Flower same as common Chinese Wistaria. \$1.50 to \$2.50

W. MULTIJUGA—Similar to Wistaria Sinensis except in color of flowers which are dark violet blue, borne in very long racemes.

Each \$1.50 to \$2.50

WISTARIA MULTIJUGA PINK — Same as above only flowers are light pink. A very rare sort. \$1.50 to \$2.50

W. BRACHYBOTRYS—White flowering. \$1.50 to \$2.50

Small plants of Wistaria Chinensis for Spring delivery at 50c to \$1.00.

### **Ampelopsis**

ENGELMANNI—Clings to walls without aid of artificial support; of vigorous growth. 50c to 75c

VEITCHEI "Boston Ivy" — Leaves glossy green, coloring bronze in Fall; flowers small; berries deep blue. Each 50c

QUINQUEFOLIA "Virginia Creeper"—Com-Each 50c mon American Ivy.

### Trumpet Vine

BIGNONIA GRANDIFLORA — (Trumpet Vine)—Strong climber; deciduous; flowers Each 50c orange scarlet.

BIGNONIA TWEEDIANA — Evergreen clinging; flowers canary yellow. Each 50c

## Dutchman's Pipe

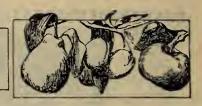
ARISTOLOCHIA SIPHO—A handsome bright green luxuriant vine, having large foliage and brownish, pipe-shaped flowers. A strong, rapid grower. Strong plants. Each 50c

ANNUAL VINES --- Cobaea Scandens, Wild Cucumber, Canary Bird. Morning Glory, Nasturtiums, etc.—SEEDS AND PLANTS IN SEASON





# FRUIT TREES BERRY PLANTS



Our Nursery Catalog contains a complete list with full description and illustrations of Fruit, Shade and Ornamental Trees, Shrubs, Climbers, etc. A copy will be mailed to anyone interested. We give below a condensed price list. We can supply all reliable and standard sorts.

	PEARS Each Per 10	PRUNES Each Per 10
2 years \$1.00	2 years\$1.00 \$9.00	2 years\$1.50 \$12.50
1 yr., 4 to 5 ft 1.00 1 yr., 3 to 4 ft75	1 yr., 4 to 6 ft 1.00 9.00	1 yr., 4 to 5 ft 1.00 9.00
APRICOTS	1 yr., 3 to 4 ft90 7.50	OUINCE
	PEACHES	2 years \$0.85 \$7.50
	1 yr., 3 to 5 ft\$0.75 \$6.50	CRAB APPLES
CHERRIES 2 years \$1.00	PLUMS	2 year trees\$0.75 \$7.00
1 yr., 4 to 5 ft 1.00 \$9.00	2 years \$1.50 \$12.50	GRAPES
1 yr., 3 to 4 ft 0.90 7.50	1 yr., 4 to 6 ft\$1.00 9.00	2 years

For Spray Calendar see Page 114

## LOGANBERRY

The loganberry is generally larger than the blackberry, often an inch and a quarter long; color dark red and produced in immense clusters. It partakes of the flavor of both the blackberry and raspberry. Fruit ripens early; excellent for jelly or jam. June.

PRICES—Large, well-rooted plants: Two-year-old, each 40c; 10 for \$3.50; 100 for \$25.00. One-year-old, each 30c; 10 for \$2.75; 100 for \$20.00.

## **RASPBERRIES**

### Raspberries—Red Caps

PRICES—Not prepaid, 1 year, each 15c; per 10, \$1.25; per 100, \$8.00.

CUTHBERT—Deep rich red, large and firm; one of the best market berries. Ripens medium to late.

MARLBORO—Standard, light crimson, large, very firm; good commercial variety; ripens early.

## Raspberries—Black Caps

PRICES—Not prepaid, 2 years—each 25c, per 10 \$2.25, per 100 \$20,00; 1 year—each 20c, per 10 \$1.50, per 100 \$12.50.

GREGG—Of good size, fine quality; very productive and hardy. Takes same position among black caps as Cuthbert among the red sorts.

PLUM FARMER—Large, black, hardy and productive. One of the very best. CUMBERLAND—Very large; similar to Gregg

## BLACKBERRIES

PRICES, Not prepaid, 2 years: Each 25c; 10, \$2.00; 100, \$18.00.

EVERGREEN—An Oregon introduction; berries long, black, sweet, rich, delicious; July to Nov.

HIMALAYA GIANT—Strong grower of a trailing nature; everbearing; an enormous yielder. The berries are large, juicy, coreless, sweet and firm. Good producer even in a very dry season.

LAWTON—Fruit large; very productive; Oregon's most popular kind.

### **GOOSBERRIES**

PRICES: Each 35c, per 10 \$3.00.

OREGON CHAMPION—Berries very large, pale green; sweet, fine; bush strong, prolific bearer. This is the standard commercial sort for our section and is best for home use.

DOWNING—Large, light green; soft, juicy and good. Vigorous and very productive.

NEW MAMMOTH—Rampant grower of trailing habit. Enormously productive and exceedingly early. Fruit very large; seeds small, cores small and soft; July 1.

KITTATINNY—Large, glossy black, juicy. sweet, excellent when fully ripe. July.

ELDORADO—Large, jet black, melting, sweet and rich; hardy and productive.

## **DEWBERRY**

PRICES, not prepaid: Each 20c, per 10 \$1.75,

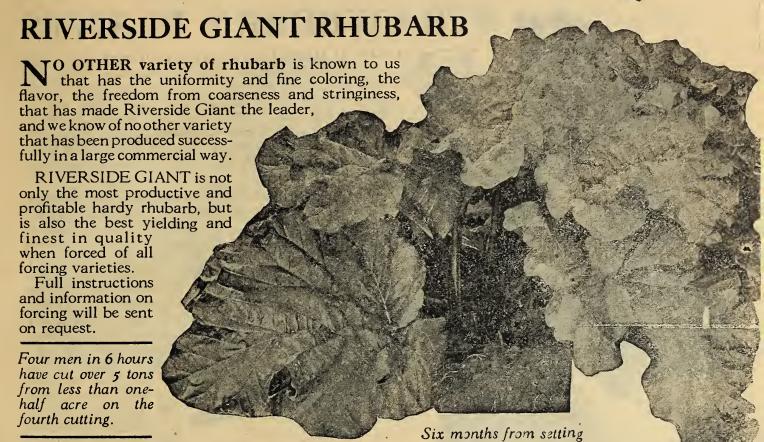
per 100 \$12.50.

LUCRETIA—Fruit large, soft, sweet; no hard core. Hardy, good for this Coast. Last of May.

GARDENIA—Large glossy black; delicious;

Heavy bearer; trailing vine. June.

FOR CURRANTS See Page 105



RIVERSIDE GIANT is unequaled for yield and quality, being crisp, tender, free from stringiness, with a good color and a delicious, distinctive flavor. The skin is so thin that it disappears in cooking. Riverside Giant has every good quality of a commercial rhubarb and is so vigorous and productive that over thirty-five tons per acre is a conservative estimate for the season. Cuttings begin in March and usually four are made, the last one in July. Full information for preparation of the soil and growing the crop, as practiced by the originator, will be sent on request to all purchasers.

Two cars of Riverside Giant Rhubarb shipped to The Dalles for drying, proved to be the best variety for that purpose, containing more substance and not having a tough skin.

We have the exclusive sale of this wonderful rhubarb and offer root divisions from the original stock. Each root will make a thrifty plant if properly cared for. Root divisions must be made from young healthy stock, cuttings from old roots will give poor returns.

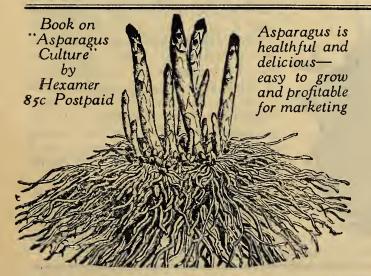
PRICE: Each 20c, doz \$2.00, \$15.00 per 100. Postpaid each 25c, doz \$2.50. Special prices on large lots.

## Victoria Mammoth Rhubarb

Standard Hardy Variety

TWO-YEAR-OLD ROOTS—Postpaid 20c each, \$1.75 per dozen. By express or freight, each 15c, \$1.50 doz, \$10.00 per 100. Write for prices on larger lots.

Don't plant rhubarb along a fence, near trees or other crops. Give plenty of room. Write for cultural directions



### Asparagus Roots

ONE-YEAR-OLD PLANTS — Postpaid 30c doz, 75c per 50, \$1.15 per 100; by express or freight, 25c doz, 60c per 50, 90c per 100, \$7.00 per 1000.

TWO-YEAR-OLD PLANTS—Postpaid 40c doz, \$1.00 per 50, \$1.50 per 100; by express or freight 30c doz, 75c per 50, \$1.25 per 100, \$10.00 per 1000.

### Horse Radish

Postpaid 5c each, 35c per doz; by express or freight 25c doz, \$1.50 per 100.
Write for price by the 1000.



Big

Well

Grown

Plants

Trim Roots here when ready to

set out

Healthy



Marshall, Magoon, Clark's Seedling and other Western varieties, many of which were introduced by our-selves, still hold their position as the leading

commercialvarieties of the Northwest, and are being planted more extensively each season, thus demonstrating by actual market and growing tests the great superiority of our Western varieties, against the keenest competition from

all sections.

### Care for and Feed Your Plants

Neglect is the prime factor in strawberry failures, and most strawberry beds suffer from lack of attention and starvation. Proper fertilization and intelligent culture insure enormous crops of finest fruit and freedom from diseases and pests. White grubs, cutworms, crown miners, etc., can all be controlled by preventive measures. Never set strawberries in or near clover sod or hay fields. Such ground should have at least two years cultivation before using for strawberries. Remove the mulch directly after fruiting.

## NEW OREGON

Our Own Introduction

Best, Most Uniform and Heaviest Yielding

Main Crop Strawberry
"NEW OREGON" is large, firm and of fine form, averaging 15 to the quart box, color a brilliant, deep, rich red, having a glossy varnished appearance when

This dark blood red fully ripe. coloring extends through to the very center, and, no matter how large, "NEW OREGON" is never hollow. When fully ripe the distinctive flavor is suggestive of the wild berry, is crisp and delicious, and will remain on the vine for three days without injury, keeping perfectly for many days after picking; stands handling and long shipments and will hold its color, shape and flavor when canned.

"NEW OREGON" is an early and continuous bearer, being ready for marketing the first half of May in the Willamette Valley and holds

up in size and quality throughout the season, which in some localities extends until frost.

The strawberries here offered have all stood the market test and you will be safe in selecting any one of them that will suit your conditions and requirements. They are the best varieties obtainable.

## FALL OR EVERBEARING STRAWBERRIES



Fall bearing Strawberries, also known as "Everbearing," are very satisfactory for home gardens and under some conditions will prove profitable commercially, but require special care and attention to secure best results as the late fruit will be small and yield less if the first blossoms are not removed, and the plants are allowed to fruit early and continuously. When properly grown they are of splendid quality and yield heavily until frost.

PROGRESSIVE—Rich, red color, firm and of delicious flavor. Good keepers and shippers. Blossoms should be cut back about 4 weeks before the berries are wanted. We consider this the best of

SUPERB-In our experience they do not ship as well nor yield as heavily as the "Progressive" although larger when properly grown, quality is fully equal to the best of the standard sorts.

Postpaid, per doz 75c, 25 plants \$1.25, 100 plants \$3.50 PRICES: Not prepaid, per doz 60c, 25 plants \$1.00; 100, \$3.00; 1000, \$20.00

We have an unusually fine stock of "PROGRESSIVES" and can deliver promptly. If you are a dealer or buy in lots 5 thousand or more write for prices.

## STANDARD VARIETIES OF STRAWBERRIES

GOLD DOLLAR-Extra Early-Gold Dollar berries are large size, dark red all through, and have fine flavor. Foliage heavy, large and spreading, which protects the blooms from early frosts. Gold Dollar Strawberries are the standard early berry in the big markets

of the Northwest and are always in demand.

MARSHALL—Very large; dark crimson throughout; fine flavor; a fine market and table berry. Our stock is true, vigorous and prolific.

MAGOON—Berry large, fine and of excellent sub-acid flavor; bears heavily; especially adapted to Western Oregon and Washington.

WILSON-A heavy bearer of fine, moderatesized berries; sharp acid flavor and the leading sort for canning.

CLARK'S SEEDLING — The "Hood River Berry"—Best shipper, berries large, of delicious flavor; vines bear large crops; especially adapted to dry soil.

All varieties except PRICES: Fall Bearing

 $\begin{cases} 1 \text{ doz}, 40c \\ 25, 75c \\ 100, \$2.00 \end{cases} \text{Not} \begin{cases} 25, 50c \\ 100, \$1.50 \\ 1000, \$10.00 \end{cases}$ Prepaid -

Not less than 500 plants of a kind at 1000 rate.

## CURRANTS

Currants are a profitable, easily grown crop, and the market is always good PRICES: Each 35c, 10 \$3.00, 100 \$20.00

PERFECTION—New; largest and most prolific Currant; bright red, rich flavor, mild sub-acid.

FAY'S PROLIFIC—Bright red, very sweet. fruit hangs on better than most varieties.

serving; valuable market variety.

CHERRY—Very large; deep red; fine for pre- VICTORIA—Large, bright red bunches; late, productive.

## VEGETABLE PLANTS

WE grow large quantities of vegetable plants, and can supply all the kinds listed below, in their proper season, in most any quantity. We have made arrangements this year so that we can supply all vegetable plants in two grades. If you want a quantity of plants write us early.

Transplanted plants are much stronger and better rooted, and are well worth the price especially in the early part of the season. We can supply most any of the leading sorts. No plants sent C.O.D.

All Prices are Subject to Crop Conditions and Market Changes.

CABBAGE
Transplanted and "pulled" plants in all standard varieties. Early and late at seasonable times.

**Prices** Postpaid Not Prep'd Doz. 100 100 Transplanted.....\$0.20 \$1.05 \$0.90 \$7.00 Not transplanted..... .15 .75 .60 4.50 F. O. B. Spokane. KALE

When you order Kale be sure to state whether you want the Garden Kale or the "Cow" Kale. Not Prep'd Prices Postpaid Doz. 1000 Thousand Head or ... 100 100 ..\$0.15 \$0.75 \$0.60 \$4.50 Cow Kale".... Garden or Curley Kale .25 1.05 7.00 .90 Special prices on large lots in season.

BROCCOLI
Our famous "St. Valentine" Broccoli should be in every garden. Broccoli is a Winter cauliflower very hardy and of the finest quality— "St. Valentine" is the best variety; plants can be set after June and are ready to use in March. Postpaid Prices Not Prep'd Doz. 100 100 1000 Broccoli ..... \$0.30 \$1.15 \$1.00 \$9.00 Write for prices on large lots. We will grow them to your order.



#### CAULIFLOWER

Cauliflower seed is scarce and high in some varieties and plant prices subject to change.

Postpaid Not Prep'd Doz 100 1000 Early Varieties, transpl'ted . . \$0.30 \$1.00 \$9.00 .90 Not transplanted..... Write for Add 15c per hundred if ordered by mail.

#### **CELERY**

Fine, healthy plants in early and Winter varieties furnished in season or grown to order.

To succeed with celery keep the plants grow-'stand still" ing constantly while young—if they they are liable to run up to seed later.

Prices Postpaid Not Prep'd Doz. 100 100 1000
Transplanted.....\$0.30 \$1.25 \$1.00 \$8.50
Not transplanted..... Write for prices

#### **TOMATOES**

Tomato plants should not be set out before the weather is settled and ground warm; unless they are protected from frost.

If you do not know what variety is best, tell

us, we will give you the right one. **Prices**Postpaid

**Prices** Not Prep'd Doz. 100 1000 100 Transplanted.....\$0.30 \$1.25 \$1.00 \$8.50 Write for prices on "pulled" plants and large lots, grown to order.

#### BRUSSELS SPROUTS

These are very hardy and should be grown the same as Kale or Broccoli.

Postpaid Not Prep'd Prices Doz. 100 100 Brussels Sprouts.....\$0.25 \$1.15 \$0.90 \$7.00

#### SWEET POTATO PLANTS

Sweet Potatoes can be successfully grown in most sections. The plants should be set out after the ground is warm. Rich, sandy bottom land is best but any good garden soil will give good returns.

Not Prepaid Prices Postpaid For seasonable Doz. 100 Doz. 100 1000 delivery.....\$0.40 \$1.75 \$0.30 \$1.50 \$12.50

## Flavoring and Medicinal Herbs—Plants

CHIVE—Has mild onion flavor, grows in grasslike clumps; much used for flavoring.

Each 15c, doz \$1.50

ROSEMARY—Infusions of the leaves are used in medicinal beverages. Produces an aromatic Each 25c, doz \$2.50

PEPPERMINT—Hardy perennial for producing Each 25c, doz \$2.50

THYME—Broad leaved, used in soup, stuffing Each 25c, doz \$2.50 and sauce.

LAVENDER—By distillation produces the wellknown Lavender water, the flowers for per-Each 25c, doz \$2.50 fuming wardrobes, etc.

Large clumps, each 50c SWEET MARJORAM — The sweet, aromatic leaves are used in either the green or dry state. Each 20c, doz \$2.00

SAGE (Giant)—The leaves and tender tops are used in stuffings and sauce; also in the beverage known as Sage Tea. The Giant Sage is a greatly improved variety.

Each 20c, doz \$2.00



## SPRAYS, INSECTICIDES

NOTE—Poisonous Sprays marked \* cannot be mailed.

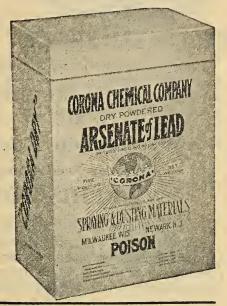
\*"CORONA" Arsenate of Lead—DRY POWDERED

Contains only Arsenic and Lead Oxides. No Fillers MIXES QUICKLY AND EASILY. STAYS MIXED LONGER AND STICKS better to leaves, branches and fruit than ANY OTHER Arsenate.

"CORONA" Dry Powdered Arsenate is a light, fluffy powder that cannot freeze, dry out, cake or lose its strength—carries the highest possible percentage of arsenic oxide, 33%—is always uniform and requires only one pound to 50 gallons of water. Efficient, economical and convenient. Highest percentage of killing power.

Prices, ½ lb 50c, 1 lb 80c, 5 lbs \$3.45, 10 lbs \$6.00, 25 lbs \$11.00, 50 lbs \$20.50, 100 lbs \$38.00, 200 lbs \$72.00.

Caution Against Spraying When Trees are in Full Bloom—Spraying when trees are in bloom may destroy bees and other insects necessary to pollinate and these natural agents should not be interfered with as their work of transferring the pollen insures bountiful crops and shapely fruit.



FOR DUSTING-"CORONA" DRY used as a dust spray is a safe, inexpensive, easily applied and efficient remedy for all chewing garden pests—and for use on fruit trees, berry bushes and plants—that will insure perfect fruit and clean vegetables.

"Garden Pests and their Control" and full information about "CORONA" mailed on request

## CORONA SULPHUR—For use with Corona Arsenate

CORONA DUSTING SULPHUR is a highly refined pure sulphur reduced to an impalpable powder specially for dusting purposes. The use of this finely powdered sulphur in the Summer season for fungus diseases of fruit and vegetables is equally as effective as Lime-Sulphur; is more easily applied and there are no harmful results as it is a pure, non-poisonous sulphur.

Price, ½ lb 15c, 1 lb 20c, 5 lbs 75c, 10 lbs \$1.20, 100 lbs \$10.00

CORONA DRY AND CORONA DUSTING SULPHUR—Mixed in equal parts by measure, is a complete and satisfactory Summer dust spray for insect pests and fungus diseases; more easily, quickly and effectively applied than other sprays, and is much more economical.

The CORONA Hand Duster is specially made for doing rapid and effective work over large areas of trees, vines, bushes and plants; but for small vards or gardens with no trees, a less expensive duster or powder gun will do the work. (See page 113)

## Use "CORONA DRY" and CORONA SULPHUR in your vegetable garden for preventing and exterminating leaf eating insects.

TOMATOES—For tomato worms, flea beetles, etc., make first application two weeks after setting out the plants.

**CUCUMBERS**—All chewing insects that injure cucumbers are quickly destroyed by dusting leaves and stems above and below. Corona Dry will not burn the foliage as Hellebore does.

POTATOES—Corona Dry is fatal to flea beetles and all chewing insects that damage the foliage. Mixed half and half with Corona Dusting Sulphur will control and prevent early blight.

**SWEET CORN**—The corn ear worm develops from an egg on the new silk or husk and feeds on the silk, following it into the ear. "Corona Dry" gives absolute control of this pest. Thoroughly dust the new silk as soon as it

CABBAGE, CAULIFLOWER AND KALE-To control cabbage worms, dust about ten days after plants are set and as often as necessary until they begin to head. Do not use any poisons on plants after they start to head.

**CUT WORMS—The best remedy is to scatter** poison about where the worms are working Corona Dry 10%, Molasses 10% by weight, mixed with bran made into small balls and scattered over the ground will attract and kill them.

ARMY WORMS—Corona Dry will kill them by dusting or by mixing 25 lbs. of bran and 2 lbs. of Coroma with molasses scattered in a line to meet their approach or all around the plants. Be careful to keep chickens away.

Choose a bright day with a light wind and apply the powder from the windward side. It is not necessary to have the foliage appear white but care should be taken to cover all parts. Begin Early. Don't wait until the damage is done.



## Sprays, Spray Material, Washes-Continued



SUCCESSFUL REMEDY FOR **CABBAGE** MAGGOT

For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries.

½ pt 35c, pt 65c, qt \$1, ½ gal \$1.50, gal \$2.50

Spokane Seed Company's

#### APHISCIDE

Our Best Summer Spray for Roses

A clean, efficient spray for aphis, thrip, and kindred insects on plants of any kind. Specially fine for house plants, as it has no offensive odor and will not injure or stain the plants.

Price qt 35c, gal 65c



BUG DEATH—A nonpoisonous insect-killing powder that is in high favor among gardeners for cabbage, tomato and cucumber bugs, etc. Use 12 lbs. per acre. Per 1b 35c, 5 lbs \$1.00.

BUHACH—Oz 20c, 1/4 lb 65c, 1 lb \$1.50.

TREE TANGLEFOOT—For caterpillars, moths and worms. Protects against all climbing insects. One pound makes a band 9 feet long. Price 1 lb 55c, 3 lbs \$1.50, 10 lbs \$4.75, 20 1bs \$9.00.

HAMMOND'S SLUG SHOT-For destroying slugs, cabbage and turnip flea, currant worms, Per 1b 20c, 5-1b pkg 75c etc.

HAMMOND'S GRAPE DUST-To prevent mildew on roses, grapes, and gooseberries. Per lb 15c, 5-lb pkg 65c

★FORMALDEHYDE—See page 109.

**★NICO FUME LIQUID.** 1 lb tins \$2.00, 4 lb tins \$7.50, 8 lb tins \$14.50.

**★NICO FUME PAPER.** 24 sheets \$1.25, 144 sheets \$5.00, 288 sheets \$9.50.

SULPHUR, Powder. Lb 5c, 100 lbs \$3.25 TOBACCO DUST.

Lb 15c, 10 lbs \$1.00, 100 lbs \$7.50

CARBOLINEUM-C. A. Wood Preserver-For preserving any kind of timber above or below ground.

Qt can 40c, wt 41 bs; gal \$1.50; 5 gals \$6.00

**★KNOXWEED**—A single application of Knoxweed kills Plantain, Thistle or any Noxious Weed—Top and Root.

Price, Dropper Can 50c, ½ gal \$1.50

★"BLACK LEAF 40" 40% Nicotine

Destroys Aphis, Thrips, Leaf Hoppers on all tree, bush and vine fruits, vegetables, field crops, flowers and shrubs; also Apple Red Bug, Pear Psylla and similar soft-bodied sucking insectsall without injury to foliage. Combines readily with other sprays.

1 oz. 6 gals. spray...\$0.25 1/2 lb. 40 to 120 gals.

spray..... 2 lb. 160 to 500 gals.

spray..... 10 lb. 800 to 2500 gals spray.....\$13.75



Black Leaf 40'

NICOTINE-SULPHATE

#### DRY BORDEAUX MIXTURE

Dry Powdered Bordeaux when mixed with cold water in the proportion of nine pounds to 50 gallons, gives a standard Bordeaux Mixture, Keep in a tightly closed package.

Price, 1 lb 50c, 5 lbs \$2.00

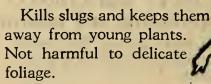
#### ★ INSECTO—Dry Bordeaux and Lead

A combination of Bordeaux Mixture and Arsenate of Lead, especially for fruit trees, potatoes and garden crops. Use 7 to 9 lbs. to 50 gallons of water. Price, 1 lb 65c, 5 lbs \$2.75

#### **★ CUT WORM FOOD** Use a Teaspoonful to a Plant or Hill

Cut worms are very fond of this special preparation which is eagerly eaten by them in preference to the plants. A careful test proved 95 per cent of the applications effective on Melons, Cucumbers, Cabbage, Cauliflower, Squash, Tomato and Flowering Plants. Easily applied by sprinkling around the plants and will not injure them in Price, 1-1b pkg 35c, 5 lbs \$1.40 any way.

BLUE LABEL SLUG DESTROYER



For Sweet Peas, Pansies and all garden truck sprinkle lightly on and around the plant.

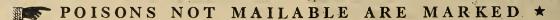
Price 25c

BLUESTONE—(Vitriol)

Lb 20c, per 100 lbs market price ★PARIS GREEN (Lion Brand)—The standard

of purity. Guaranteed superior to other makes. Price, 1/4 lb 25c, 1/2 lb 40c, lb 75c

FISH OIL SOAP—For aphis, plant lice, etc. Per bar 25c, 100 lbs bulk \$14.50





#### DIAMOND LIME AND SULPHUR SOLUTION

For San Jose Scale

You cannot afford to risk a cheap, open kettle product. Be safe. Use the best.

Diamond Lime and Sulphur Solution is prepared in pressure tanks by steam, and is always uniform and of the highest efficiency tests 30 Baume Scale, is made of the purest and best quality of Sublimed Sulphur and of Lime, is a clear, deep cherry colored liquid, free from sediment, and is all ready to mix just as you get it. Merely add 11 gallons of water with each gallon of the Lime and Sulphur Solution. There is no sediment to clog the sprayers. No boiling to be done, which saves fuel, time, labor and annoyance. It is always alike and uniform in strength and results.

Price: 1 qt 35c, 1 gal 80c, 5 gals \$2.60, 50-gal bbl \$13.00

#### **SCALECIDE**

The best miscible oil spray for San Jose scale and soft-bodied, sucking insects. Also contains a powerul fungicide, which will control fungus diseases that are controllable in the dormant season.

This assertion is not based on a single test on ten or a dozen trees, but on actual work in great commercial orchards, where thousands of gallons of spray were used. "Scalecide" is a petroleum oil that mixes readily with cold water in any proportion, and stays mixed. It is not necessary to use an extra tank or barrel, and no hot water should be used. Prepared by adding one gallon of "Scalecide" for every fifteen or twenty gallons of water, right into your spray tank. No crude oil is used in the manufacture of "Scalecide," all the light and heavy oils that might prove injurious being removed—but all of the soluble sulphur is retained; this has the insecticidal value. That "Scalecide" is a satisfactory and dependable remedy for San Jose Scale is attested by the records of some of the largest commercial orchards in the U.S.

Full information on request.

Price per qt 75c, gal \$2.00, 5 gals \$9.00, 10 gals \$17.00, 50-gal bbl \$45.00.

#### DIAMOND SPRA-OIL

SPRA-OIL is a miscible oil spray manufactured at Hood River, Ore., and has been used by the big commercial orchards in that section with the greatest success, especially in spraying for leaf roller.

As a WINTER SPRAY—For San Jose Scale, Pear Scylla, Leaf Roller, Woolly Aphis, use one gallon of Spra-Oil to 15 or 16 gallons of water.

As a SUMMER SPRAY—Very efficient for young San Jose Scale and certain Aphis, when diluted with 50 to 100 gallons of water to one gallon of Spra-Oil—depending on the foliage, which, if very tender, should be sprayed with a weaker solution than 1 to 50.

Directions for Diluting—Shake and stir well while in the original package; after this, mix with one part of water to one part of Spra-Oil, which will readily emulsify to a creamy consistency. When this is thoroughly mixed, put it in the spray tank and it will stay in suspension.

Price, qt 40c, gal 95c, 5 gals \$4.00, 10 gals \$7.50, bbl \$26.00.

## Treat Your Seed with Formaldehyde

A Preventive for Smut in Grain-Scab and Fungus Diseases of Potatoes

Formaldehyde is a clear chemical, resembling water, but has a peculiar odor. It is sold by the pound (pint). One pound is sufficient to treat 40 to 50 bushels of oats.

The following method is in general use: To treat 20 bushels of oats requires 1/4 pint of Formaldehyde diluted with 5 gallons of water. Spread the oats on a floor and sprinkle with the diluted solution. Then turn them twice with a scoop shovel. Allow to stand for 12 hours. Then spread to dry. Any quantity can be treated by using the same proportions. Oats thus treated will be entirely free from smut.

Prices, 1 lb 65c; 2 lbs \$1.15; gallon jug \$3.80; express or freight at purchaser's expense,

cannot be mailed.

## SPRAYOMETER—For Testing Lime-Sulphur

For testing lime and sulphur and other solutions. Registers from 0 to 35 Baume scale, and 1000 to 1300 specific gravity. A well made, reliable instrument that protects you against low grade sprays. Weight ½ lb.

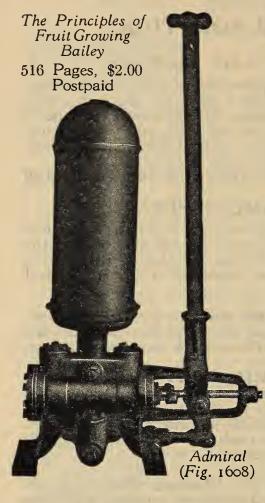
Price each \$1.25

Sprayometer Set consisting of one LI-SUL Sprayometer, one 12-inch plain Glass Cylinder in wooden container, with full instructions. Per Set, weight 2 lbs. Price \$1.50

FRUIT TREES DEMAND BEES FOR PROPER POLLINATION—Our Bee Supply Catalog tells why; also how to keep and handle bees. Every fruit grower needs a copy of

## THIS SPECIAL CATALOG OF BEE SUPPLIES

It lists everything necessary for the successful handling of bees and the production of honeytells how to care for bees and gives valuable information on pollination, of special interest to fruit growers, and is ready in February, mailed free on request...



## Gould's Spray Pumps

We are General Agents for the Gould Sprayers, guaranteed to be the best built, most lasting and of the highest efficiency. They are the recognized standard.

#### GOULD'S "ADMIRAL" DOUBLE ACTING SPRAYER

For Large Orchards, Parks, Groves, Etc.—Very Powerful

The "Admiral" is double acting and produces a steady stream at the nozzle, is built for continuous hard work and high pressure. Especially designed for large orchards, and will meet every requirement. The brass cylinder lining is of heavy seamless tubing, with a cast bronze cylinder head, and can be easily removed. The valves are all brass, and each one in a separate valve box. They are easily reached by removing the bronze valve box covers. The brass piston rod is outside guided, making a perfectly straight thrust through the stuffing box, which is outside packed. Capacity four leads of hose, and will be found fully as serviceable as a power sprayer and one of the best spray pumps for power outfit.

Outfit A—Pump only, strainer and suction hose couplings.\$42.50 Outfit B—Pump with 8-feet suction hose and strainer... 46.50 Outfit C—Pump with 8-foot suction hose, two 25-foot leads, best spray hose, two 8-foot bamboo extensions, with Globe valves and nozzles. . 64.00

Admiral Pump with 3-inch cylinder furnished on any of above outfits for \$4.00 extra.

Pitman to connect Admiral for power.

Extra, \$1.25

#### MONARCH TWO-CYLINDER SPRAY PUMP

Fig. 1640—Monarch—This pump has many advantages and we believe it is the best of the large pumps. The main advantages are: First, the long lever, which can be shifted to pull or push, or to lift or drop, and can be changed by the operator any time he desires a relief; second, pump stands outside of the barrel, and all parts can be easily looked after; third, cylinders are perpendicular, and any grit will not lie against the plunger, to wear it or the packing out, as in the case with the horizontal cylinders; fourth, there are no valves in the plungers; the packing is on the outside, and can be tightened any time, without taking anything to pieces; fifth, the four brass valves (each one by itself and under a separate cap), can be reached by merely unscrewing the cap, and without disturbing the rest of the pump.

Outfit A-Pump only, 2-inch cylinder, including strainer and hose connection.....\$40.00

Outfit B—Coupled with 6 feet 3/4-inch suction hose...... 42.50

Outfit C—Pump, suction hose, 25 feet best spray hose, 8-foot bamboo extension, Globe valve and nozzle...... 52.50

If 2½-inch cylinder is wanted add \$5.00 to price of pump.

#### FIELD CROP OR POTATO SPRAYER

A practical 4-row adjustable attachment including nozzles, for use with any barrel or power pump. A firstclass outfit built for service. Price Complete \$15.00

#### TAKE CARE OF YOUR SPRAYER=

Always empty remaining solution, and pump through Clean thoroughly before putclean water after using. ting away at end of season.

Never leave sprayers containing liquid where they will freeze; if cylinders are iron they are apt to crack and if brass they will expand.





## Spray Pumps and Sprayers—Continued

## GOULD'S STANDARD SPRAYER

Powerful, Large Capacity, Durable

The "Standard" Sprayer is made with a 21/2-inch cylinder. The cylinder is brass-lined, the plunger brass-encased and the valves are brass, making all working parts proof against the spraying mixtures. The plunger is easily repacked without taking the sprayer to pieces, and is unusually large, known as a "differential" plunger, which produces a continuous stream of liquid from the nozzle, similar to a double-action pump. The large standard provides an ample air chamber. The base is made so as to fit either the end or side of a The base is made so as to fit either the end or side of a barrel.

Outfit A—Pump and strainer only	13.50
Outfit B—Pump with agitator and suction pipe	15.00
Outfit C—Same as B, with 1 15-foot lead of hose and nozzle	19.50
Outfit D—Same as C, with 2 15-foot leads of hose and nozzles.	24.00
Outfit E—Same as D, with 2 bamboo extensions and globe valves	

We supply a barrel and mount sprayer for \$2.50 extra.

## GOULD'S POMONA—Our Leading Barrel Pump

Fig. 1100—"Pomona" Spray Pump has won for itself an enviable reputation. We unhesitatingly offer it as the best orchard spray pump for mounting in a barrel. It has great power and capacity. Briefly stated, other points of superiority are: No leather packings, consequently no hardened and useless valves. All working parts bronze,

including plunger, gland, valves, valve seats, etc. Plunger is outside packed. Valves are easily accessible. Air chamber is very large and of steel, free from imperfections of cast iron. Lever long and powerful, with adjustable stroke, three, four or five inches. The agitator, as shown in the cut, is operated by the stroke of the handle, so whenever any liquid is pumped it is thoroughly agitated. Pump is held securely by small anchor located at bottom of barrel, and by adjustable clamp plate at the top. New plate admits insertion or withdrawal from barrel without removing the agitator.

cut-off, complete. Outfit C-Same as Outfit B, except we furnish a good hard-

It consists of one No. 1100 pump with two 12½-foot leads of best spray hose, two Vermorel or Seneca nozzles, two 8-foot bamboo extensions, with cut-off; all in working order and mounted in barrel.....





=POWER OUTFITS =

We assemble outfits in any manner desired by customer, and suggest the right attachments for special purposes. Attaching any standard engine specified. Write us your requirements. We can save you money and guarantee a satisfactory equipment.



## Spray Pumps and Sprayers—Continued No. 40-D Auto Spray



For handling White Wash, Cold Water Paint, Insecticide, Fungicide and all solutions.

The heavy galvanized steel tank has a capacity of 12 gallons and is mounted on a truck having a 20-inch wheel.

The pump has graphite outside packing and is easily adjustable, is of the displacement type and as sturdy and durable as can be built, easily maintaining pressures of 150 to 170 lbs. The suction pipe is fitted with brass strainer and the mechanical agitator is operated from handle, top casting on the tank has a broad flange preventing the solution from slopping over. Equipped with 8 feet high pressure  $\frac{3}{8}$  inch hose, 8 feet of iron extension, lever shut off and new pattern screen nozzle.

No. 40-D. 12 gallon with truck 75 lbs. \$27.5

No. 3-D. Same as No. 40 D except pump is plunger style: durable and efficient, giving 100 lbs pressure.



Fig. 5611

Brown's Auto-Spray No. 1

The Auto-Spray No. 1 is strong and simple in its working parts. Two pumpings of about 15 strokes on the plunger will discharge contents under high and constant pressure. Sprayer is equipped with our patent non-clogging nozzle. The Solution Tank holds about 4

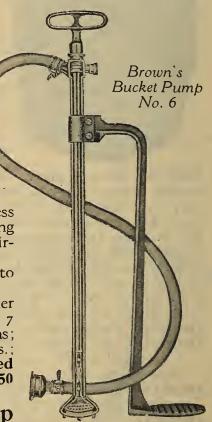
The Solution Tank holds about 4 gallons and is made of galvanized steel or heavy sheet brass. We recommend brass as it will not corrode with strong solutions and is more lasting.

The brass air pump, made of seamless tubing, is provided with our Cam Locking Device which closes the filler opening airtight with a half turn of the pump handle.

Made without screws or bolts. Easy to

take apart.

Valves and washers resist oil and other solutions that attack rubber. Diameter, 7 inches; height, 2 feet; capacity, 3½ gallons; weight, empty, 7 lbs.; weight, loaded, 30 lbs.; weight, shipping, 15 lbs. Price, galvanized with auto pop nozzle \$7.50, brass \$11.50



No. 6 Brown's Bucket Pump

Double acting bucket pump that will easily give and maintain 200 lbs. continuous pressure Pump and valves complete are made entirely of brass, has brass strainer on suction hose and screen nozzle. This pump can be taken apart and reassembled without tools, has 3½ feet high pressure 3%-inch hose with fine spray and solid stream nozzles. Shipping weight 6 lbs.

Price \$5.50

# HAND PUMPS AND SPRAYERS Premier Bucket Pump

Fig. 561 ½—Brass bucket pump, arranged with suction and discharge hose and spray nozzle, which will throw a solid stream or fine spray. Pump

has brass cylinder, plunger and rod, and is particularly adapted for washing windows and wagons, spraying flowers in conservatories, gardens, etc., etc.

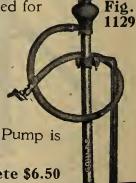
Price complete \$7.00

#### Bordeaux Bucket Pump

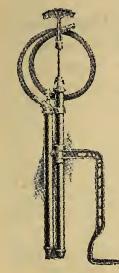
Fig. 1129—Brass garden and spray pump; is especially designed for spraying in gardens and green houses. The pump is double action in effect; Seneca nozzle, ball valves; proof

double action in effect; Seneca nozzle, ball valves; proof against the action of acids and oils. Footpiece is malleable iron. set in pail or bucket, with foot outside. Weight 6½ pounds.

Price complete \$6.50



## Spray Pumps and Sprayers—Continued



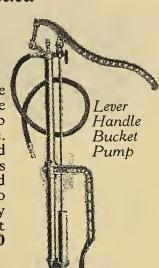
## SPOKANE SEED CO.'S BUCKET PUMP

This little pump is very convenient for all sorts of small work. Has brass cylinder and valves, two nozzles, for fine or coarse work, and an extra solid stream cap. Weight 6 lbs. **Price \$4.75** 

#### LEVER HANDLE BUCKET PUMP

The lever handle and large air chamber make this the most powerful bucket pump and the easiest one to operate. All working parts are solid brass with brass ball valves and patent agitator. Fitted with graduating nozzle to throw a fine or coarse spray or a solid stream. Weight 8 lbs.

Price \$7.50



#### BROWN'S AUTO SPRAY No. 5

A powerful direct-action force pump, made entirely of brass—no packing to decay, no iron to rust. Can be used with a bucket tank or knapsack.

Equipped with combination nozzles producing a fine mist—a wide spray 15 to 20 feet, or a solid

stream 50 to 60 feet.

PRICES

Pump only, with 3

5-gal galvanized

**Curved Brass** 

Extension,

19 in.....75c

nozzles ..... \$5.50

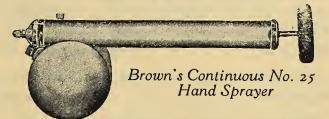
knapsack, ex. \$3.50

sprays, etc. Weight 11/4 lbs.



Brown's Auto-Spray No. 5 With Knapsack Tank

#### BROWN'S CONTINUOUS No. 25



This is the best hand sprayer to date; has a compressed air chamber, which makes pressure continuous; has brass nozzle, adjustable to spray, fine or coarse; brass ball valve; simple in construction; light, durable; works easy. Weight 1½ lbs. Price, tin \$1.00; galvanized \$1.25; brass \$1.50

#### PLUVIUS LAWN SPRINKLER



Properly constructed, iron stand, upper part all brass. Turns with small force. Weight 3½ lbs.

Each \$2.00

#### BUSY

A regular water flirter, runs easy. Weight 2 lbs.

Price \$1.25



Pluvius

Busy

#### ACME SINGLE POWDER BELLOWS

ASPINWALL SPRAYER

LITTLE ASPINWALL

Fig. 30. One of the most convenient and economical

sprayers for liquid lice-killers,

Price 70c



Fig. 20. Excellent for blowing powder on vines and bushes; good size, and works fine. Weight 2 lbs. Price \$1.25

#### BLOW POWDER SPRAYER

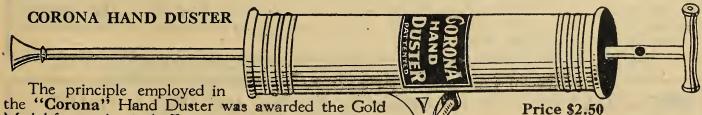
A serviceable tin dust sprayer. Weight 1 1/4 lbs.

Price each \$1.00

#### INSECT POWDER GUN

No need to waste any powder if you use this small hand powder blower to apply powder of any kind on poultry, dogs or cats.

Price, each, small 25c, large 40c, postpaid

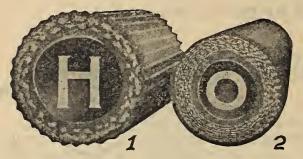


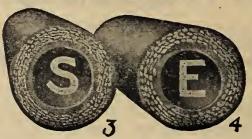
the "Corona" Hand Duster was awarded the Gold Medal for mechanical efficiency at the Panama-Pacific International Exposition and no other dusting device in the class can approach it for efficiency

Price \$2.50 Weight, packed, 3 lbs.

in its class can approach it for efficiency, ease of manipulation, simplicity and durability.







No. 1—Corrugated

No. 2—Monarch

No. 3-Pomona

No. 4-St. Helens

#### FOR SPRAY PUMPS AND GARDENS

NOTE—All our hose, excepting spray, is furnished in 50-foot lengths, and comes coupled **ready for use.** We will cut any of these hose in 25-foot lengths at an additional cost of 35c for couplings. We will cut ½-inch Pomona and Monarch Spray Hose in any length desired, at an extra cost of 75c for spray couplings in less than 50-foot lengths.

MONARCH SPRAY HOSE—Absolutely the best hose we can buy; the rubber is of exceptionally good quality and is very heavy; and we do not hesitate to recommend it to orchardmen, who must have a very high-grade and strong spray hose.

1/2 inch per foot 25c

AJAX—A splendid molded hose, will stand high pressure. 3/8-inch only. Per ft 18c

POMONA SPRAY HOSE—Has stood the test of time and hard usage, and has always proved good.

Price %-inch per ft 15c

**SUCTION HOSE**—This is an excellent grade of suction hose, and is what we furnish with our regular pump outfit.

Per ft 1-in 30c, 2-in 75c

CORRUGATED GARDEN HOSE—A new process, corrugated rubber hose, that will not kink or break. Especially recommended for florists and gardeners who use hose continuously.

Price per ft, 3/4-in 18c, 5/8-in 20c

ST. HELEN'S GARDEN HOSE—Where a hose of medium price is wanted it will give excellent satisfaction. Price ½-in per ft 12½c

#### SPRAY CALENDAR—WHEN TO SPRAY, WHAT TO USE

Insect or Disease	Plant Attacked	What to Spray With	First Spraying
San Jose Scale  Oyster Shell Bark Louse. PeachMothor Twig Borer Woolly Aphis	Apple, mainly	Arsenate of Lead	When leaves are off the trees. When leaves are off the tree. When the insects appear. When the insects appear. Just as soon as the insects appear.
Slug. Thrips. Cottony Scale  Scab Blackspot Canker. Leaf Curl	Pear, Cherry, Peas Roses Pear, Currant Apple, Pear Apple Peach	Scalecide, 1 part to 40 parts water. Slug Shot or Bug Death	When the insects appear. When the insects become cottony (May). Just before blossoms open. Immediately after leaves fall. Before buds burst.

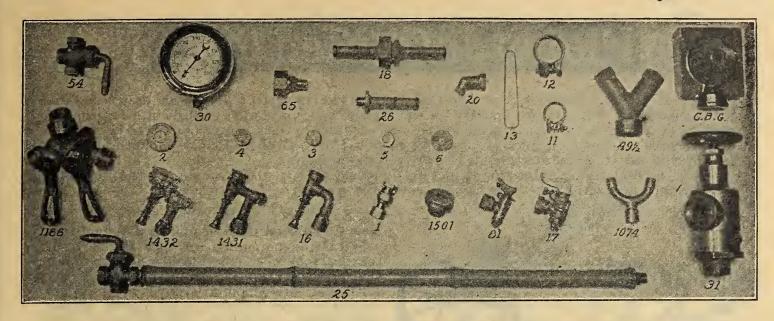
## = VALUE OF "CORONA SULPHUR" =

THE most common fungous diseases that annoy the gardener and orchardist are Mildew on climbers and roses or flowers, Early Blight on potatoes, Scab on apples and pears, and Brown Rot on peaches. CORONA DUSTING SULPHUR is good for all these and can be used by itself or in combination with "CORONA DRY."

This superfine sulphur, which will readily pass a sieve equal to more than 40,000 holes to the square inch, is the only sulphur sufficiently fine for use in Dust Mixtures. This excessive fineness means greater covering power, more complete and uniform distribution, and consequently better disease control. See page 107.

SPRAYING to be effective MUST BE WELL DONE-

Gould Spray Pumps will give and maintain the necessary pressure to spray right. They are built for lasting service. See page 110



## Nozzles, Connections and Hose Supplies

Fig. 1501. Non Clog, Jr. Best hop nozzle; throws a perfect spray; of greater capacity and a great improvement over other nozzles; produces a fog in great volume at a light pressure. Weight 8 oz.

Price \$1.00

Fig. 16. Vermorel Nozzle. With degorger, affords a conical discharge. Very popular. Wt. 4 ozs. Price \$1.25

Two-Discharge Vermorel. Covers twice the surface sprayed by the single nozzle. The nozzle for general orchard work. Wt. 1 lb. Price \$2.25

Fig. 81. Seneca. Gives a very wide spray; discharge easily graduated. Use this nozzle for whitewashing. Weight 5 oz. Price \$1.50

Fig. 1. Bean's Best. Best long-distance nozzle. Weight 2 ozs.

Price \$1.00; extra cap, Fig. 5, 35c

Fig. 17. Bordeaux. Weight 6 oz. Use this nozzle for whitewashing. Price \$1.50

Bean Clipper. New improved Bordeaux.

Price \$1.50

Fig. 30. Pressure Gauge. Weight 2 lbs. Price \$2.50

Fig. 20. Nozzle Ell. Weight 2 ozs. Price 25c

Fig. 31. Relief Valve. Wt. 3 lbs. Price \$4.00

Fig. 26. Hose Connection. For nozzle or extension. Weight 1/4 lb. Price 35c

Fig. 65. Hose Reducer. For nozzle or extension. Weight 3 ozs. Price 45c

Fig. 1186. Double Cut-off. Weight 2 lbs-Price \$2.50

Fig. 1074. Brass Y, ¼-inch, for nozzle only. Weight ¼ lb. Price 50c

Figs. 11-12. Brass Yerdon's Bands, ½-inch. Each 10c; doz 75c; Postpaid 85c

Fig. 49½. Brass Y, ¾-inch, for hose coupling. Weight 1 lb. Price 75c

Just Rite Hose Nozzle. One of the best for yard use. Weight 1 lb. Price 50c

Fig. 25. Bamboo Extension. Has iron pipe inside of bamboo, threaded for nozzles and stopcock.

Price:

Bamboo	Bamboo
2 to 4 ft\$1.35	10 ft\$2.35
6 ft 1.75	12 ft 2.70
8 ft 2.00	

#### With Stopcock Add 90c

Fig. 54. Stopcock. Weight 1/2 lb. Price 90c

Fig. 18. Spray Hose Couplings. 2½-inch shank for heavy pressure spraying.

For ½-inch hose, price, pair 75c postpaid.

Hose Couplings, for garden hose, ½-inch or 3/4-in, complete. Price per pr 40c; postpaid 45c

Hose Washers. 1/2-inch, rubber. Doz. 10c

C. B. G. Lawn Sprinkler. Weight 2 lbs.
Price 35c

Myers Spray Gun





The Myers Spray Gun is for use with power sprayers. One man can deliver the entire capacity of the pump (4 to 8 gallons per minute), reaching the top of the tallest trees or spraying a whole side at one shot. Weight 5 ½ lbs.

Price \$10.50

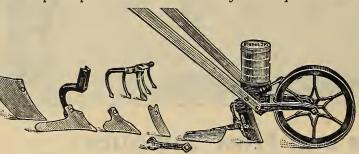


# Planet Jr. Garden Tools



**F**OR over 45 years Planet Jr. Garden Tools have stood the test of world-wide usage, and are recognized in every known country as the highest type of garden implement. In Europe, where labor is cheapest, Planet Jrs. are in constant use. How, then, can you afford to be without them where labor is both high and scarce? We cannot tell you all about Planet Jrs. in this catalog, but will send you the beautiful 72-page Planet Jr. book on request.

Being general selling agents for Planet Jr. Implements, our stocks are large and orders will have prompt attention. State your requirements. We will advise the correct tool.



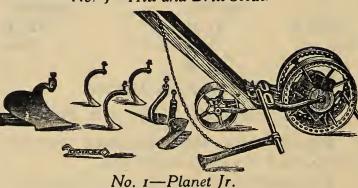
No. 31—Combination Drill, Seeder and Wheel Hoe



No. 6-Combined Planet Ir.



No. 3-Hill and Drill Seeder



IRON KING SEED DRILL



well-made, durable and easy running machine, accurate and reliable, and with careful use will last a lifetime. It will save the price of the machine in sowing a few acres. If you are growing onions you cannot afford to be without one. Sows anything from turnips to peas. Weight packed 85 lbs. Price \$15.00

#### No. 31 PLANET JR.

New Combined Drill Seeder and Wheel Hoe For the home garden this new Planet Jr. is the ideal tool—a combined seeder and wheel hoe at a price that anyone can afford. The seeder will plant any amount, even a small packet accurately and evenly—any kind of garden seed—from a ¼-inch to 2 inches deep. The change to a wheel has is quickly and easily change to a wheel hoe is quickly and easily made-for equipment see illustration. Seeder holds 1 qt. Weight packed 32 lbs. Price \$13.75

#### No. 6 PLANET JR. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

It drops all garden seeds in hills and sows in drills, with the greatest regularity, to any depth, covers, rolls down and marks the next row. As a wheel hoe, it hoes, cultivates and plows at every passage up to 16 inches in width. Holds over 2 quarts of seed. Price complete \$26.75. Wt. packed 63 lbs. As Seeder only \$23.25. As a Wheel Hoe only (No. 36) \$12.00.

#### No. 3 PLANET JR.—Hill and Drill Seeder

A favorite among onion growers, market gardeners and seedmen. The special force feed is admirable, working equally well whether sowing with an ounce or a full hopper. 15-inch Steel Driving Wheel. Holds 3 quarts of seed. Weight packed 43 lbs. Price \$19.25.

## No. 1 PLANET JR. Combined Drill Seeder, Wheel Hoe, Cultivator and Plow

The sowing cylinder is a drum of spring brass set between the driving wheels, with a sliding brass band and cam. In drum and band are corresponding diamond shaped discharge openings, quickly adjusted for any kind of seed. Inside the drum, shields cover the openings, and insure regular sowing with a full hopper or a thimbleful. Holds 3 pts. of seed. Wt. packed 47 lbs. Price with tools as shown, \$16.50.

## No. 4 PLANET JR. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

This tool combines in a single convenient implement a capital hill-dropping seeder, a continuous row-seeder, single wheel hoe cultivator and garden plow. Holds 2½ quarts of seed. Price complete \$20.50. Weight 50 lbs. As Seeder only \$16.25.

#### No. 25 PLANET JR. Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow

Valuable for gardeners who have enough acreage for a double-wheel hoe. Combines in a most practical way the No. 4 Drill and No. 12 Double and Single Wheel Hoe. Holds 2½ qts. of seed. Weight packed 61 lbs. Price \$23.75.







#### PLANET JR. SINGLE WHEEL HOES

The handles are adjustable in height. The frame is steel, convenient and strong, with quick change device by which to exchange the tools without removing the nuts. Nos. 16 and 17 wheels, frames and handles are alike, but the attachments sold with each vary.

The hoes are the most valuable of all the wheel hoe attachments; are oil tempered and polished.

Use the 4-inch for 6, 10 or 12-inch rows; the 6-inch for rows 12 inches and upwards.

The Plows are invaluable; use them with points together for opening furrows for manure, seed, etc. then exchange sides for covering; use them also for plowing away from or toward the crop, both sides at once.

The cultivating teeth for deep or shallow work, and for marking out.

Leaf lifters save time and enable fine work to be done close to the row without additional labor, when plants are large or leaves are flat on the ground.



#### No. 16 PLANET JR.

#### Single Wheel Hoe, Cultivator, Rake and Plow

The No. 16 has 15-inch steel wheel, steel frame, one pair of 6-inch hoes, three cultivator teeth, one large garden plow, a 4 and a 7-inch rake, one leaf guard. The plow hoes and cultivator teeth are oil tempered. Is a complete equipment for every requirement. Weight 26 lbs. Price \$11.25

#### No. 17 PLANET JR. SINGLE WHEEL HOE

You can do more and better hoeing with it in one day than you can do in three days with a hand hoe. The No. 17 has a pair of 6-inch hoes, a plow and a set of cultivator teeth, an outfit sufficient Weight 24 lbs. Price \$9.75 for most garden work.



No. 11 Planet Ir.

#### No. 12 PLANET JR.

#### Double Wheel Hoe, Cultivator and Plow

This tool is identical with No. 11 Wheel Hoe, except that it has one pair plows, one pair hoes and two pair cultivator teeth only, and is sold at a correspondingly less price. Weight 33 lbs. Price \$13.25.

The No. 11 is considered the best combined Double and Single Wheel Hoe made, having the largest assortment of useful tools and the frame being adjustable for any depth work. The attachments and their position can be changed in a few seconds. All edge tools are oil tempered, see attachments illustrated—can be

used in narrow rows as a single wheel hoe—as a double wheel hoe the arch will straddle plants 20 inches high. Weight packed 39 lbs. Price with Attachments as in cut, \$16.75.

#### HALL'S GARDEN PLOW AND **CULTIVATOR**

#### Hall Cultivators are High Grade Complete Tools at a Price Everyone Can Afford

Hall's No. 6. The Swing Frame and extended curved handles insure easy running and a steady draft. The tools are sharpened and polished and will scour in use. 24-inch wheel. Weight packed 24 lbs. Price \$6.00.

Hall's No. 7. This has an 18-inch wheel and handles adjustable to proper working height. Has the same tools as the No. 6 and in addition sweep for weeding and light cultivation. The special adjustment for depth gives easy control.

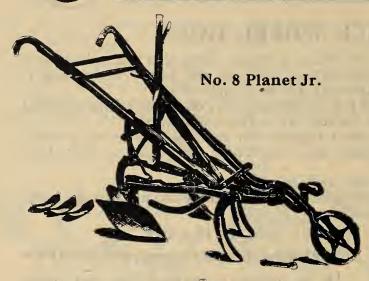
Weight complete 18 lbs. Price \$6.50.

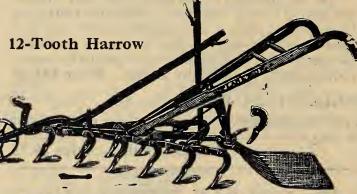




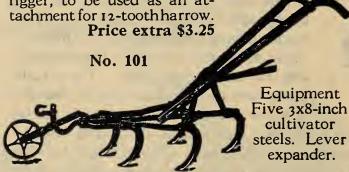
# Planet Jr. Garden Tools







A strawberry runner cutter consisting of a 10-inch flat steel disc mounted on an out rigger, to be used as an at-



#### No. 8 PLANET JR. Horse Hoe and Cultivator

In general use throughout the civilized world. Is strongly built to withstand incredible strain, yet it is light and easy to handle. It opens and closes furrows, hoes right up to the plants without danger of injuring, throws dirt to or from the row and throws back from center again. With Steel Wheel. Weight packed 83 lbs. Price \$21.75.

#### No. 9 PLANET JR.

#### Horse Hoe and Cultivator with Steel Wheel

This admirable tool has a plain wheel instead of lever wheel. It has the high frame, patented hollow steel standard, patent lever. Star wheel, patent lever expander, and hollow steel wheel arms. Weight packed 70 lbs. Price \$19.00.

#### No. 90 PLANET JR.

#### 12-Tooth Harrow, Cultivator and Pulverizer

Works deep or shallow, coming up close to row without injuring plants, cut out all the weeds, stirs and mellows the soil. Width, adjustable, 12 to 32 inches. A special favorite with strawberry growers, market gardeners and truckers. With Steel Wheel Complete. Wt. packed 74 lbs. Price \$21.50. Without Pulverizer, price \$18.25. Plain, price \$14.50.

## No. 101 PLANET JR. Plain Cultivator With Wheel

The lever, instead of standing perpendicular, slants backward between the handles, free from danger of being bent or broken, and prevents injury to crops under cultivation. While the design is one of simplicity, it is very strong and most accurate in its work, and the tool has so few parts that there is no danger of its ever getting out of order. With Wheel, weight packed, 56 lbs. Price \$14.25.

## Planet Junior Specials

We have only a limited number of the following tools, and offer at reduced prices until sold:

No. 4. Plain five-tooth expanding—one-horse Cultivator with wheel. Weight 56 lbs.

Special at \$18.00

No. 45. Riding Harrow and Cultivator for preparing ground for grain or vegetables or for general orchard work—complete with extension.

Special at \$55.00

No. 10. Combination Farm and Garden Horse Hoe, Cultivator, Furrower, Plow and Vine Turner. Weight 112 lbs. Price \$22.00

Planet Jr. Grass Edgers runs on the walk or grass equally good on curved or straight work. Weight 26 lbs. Price \$10.75

No. 70. Pivot Wheel Riding Cultivator, Furrower and Ridger. Special at \$55.00

#### Attachments For Wheel Hoes

Peat Land Hoes—Weight 5½ lbs. per pair.
Per pair \$2.75

Disc Hoes—Weight 5½ lbs. per pair.

Per pair \$4.75

6-Inch Hoes—Complete. Weight 21/4 lbs. per pair. Per pair \$1.85

4½-Inch Hoes—Complete. Weight 2 lbs. per pair. Per pair \$1.75

3 Prong Cultivator Teeth—Weight 2½ lbs. per pair. Per pair \$2.75

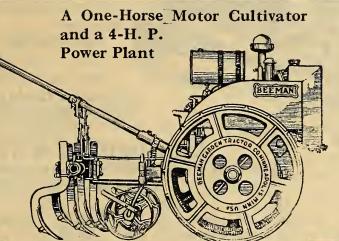
8-Inch Onion Harvester—Weight 11/4 lbs. Price \$2.00

Cultivator Teeth. Frice \$2.00

3 years of careful tests

> under working conditions have perfected the

Beeman and guarantees the user against faulty design or construction



Cultivates Harrows Plows

> and delivers 4-Horse Power for operating Farm Machinery



Plowing



A Quick, Clean Job



Close Work

The BEEMAN starts and handles so easily that a child can operate it.

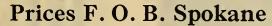
Adjustable Attachments can be provided for operating between rows of different widths, and special attachments for cultivating three rows at once.

Adjustable frames make it possible to cultivate every row to its proper depth, no matter how uneven the ground.

All standard makes of Tools, Hoes, Weeders, Discs, Cultivators, Knives, etc. easily attached to the Tool Frame.

On Beaver Dam, and Muck Land, that is too soft for Horses, the broad wheels One Row Cultivating, between the rows with their extension rims makes possible fast and thorough work with the BEEMAN.

No waste ground; you can work close up to and right along a fence and turn in a very small space.



BEEMAN TRACTOR with one row cultivating attachment as illustrated above. Complete with Magneto, Belt Pully and air cleaner ......\$350.00

#### EXTRA ATTACHMENTS

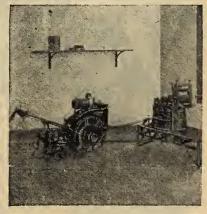
4-inch Extension Rims for Bull Wheel. 4-inch Mud Lugs......\$5.50 Cultivating Tools for One-Row Cultivator Attachment.....\$23.00 7-inch Walking Plow.....\$15.00 Hitch for Plow......\$8.50 16-inch Castor Wheels, per pair..\$10.50 BEEMAN CATALOG and complete price list of tools and attachments mailed on request.

No Gardener can afford to be without a BEEMAN





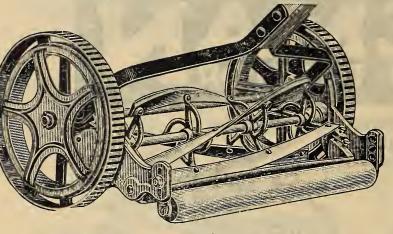
One Row Cultivating, astride the row



Running Washing Machine

## 120

## LAWN MOWERS



F. and N. Lawn Mowers are made in the best equipped Lawn Mower factory in the world, of the very finest material and are machined to the one-thousandth of an inch and are absolutely guaranteed.

Trojan—	Admiral
- 14 in \$7.00	Ball Bearing—
16 in 7.25	14 in\$12.00
10 111 1.23	16 in <b>12.59</b>
Paragon	18 in 13.00
Ball Bearing—	National
	Ball Bearing—
14 in 8.75	16 in 18.00
16 in 9.25	18 in <b>18.50</b>
Simplex Grass Catch	ers—No. 1\$1.50
	1.60

They cost no more than others and run 44% easier You can make the

## Dunham's Lawn Rollers

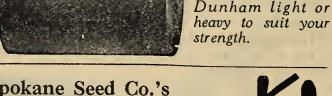
The only Lawn Roller with Automobile Roller Bearing Axles PRICES-F. O. B. SPOKANE

Sec. Wgt. Sec. Wgt. LR404..20x20 2 250 **\$20.00** LR410..24x24 2 450 **28.00** LR407..20x24 2 300 \$23.00

One and Two-Section "Water-Weight" Rollers

These can be filled with water or sand, and when empty are easily transported, adjusting the weight to suit.

	Sec.	Empty	Water	Sand	
WB314x20	I	60	200	500	\$12.00
WB724x24	I	125	500	800	21.50
WB1524X24				800	26.50



Spokane Seed Co.'s TRAP GUN A "Sure Cure" for

Moles and Gophers

Breech loader, 16 gauge; can be set for coyotes coons, hawks, etc., and is the most effective way of getting moles and gophers. Safe, simple, durable. Weight 4 lbs.

AND GOPHER QUICK, CERTAIN, Exterminates Squirrels, Sage Rats, Field Mice. Pocket Gophers, Prairie Dogs, Crows. Use early when green food is scarce. Price 1 lb package 60c

### REDDICK MOLE TRAP No Mole Can Pass Under It and Live These traps are strong and durable and worth the price to anyone troubles by moles. Full Directions with each trap. (See cut) Weight 3 lbs. Price \$1.10 Reddick Mole Trap

OUT O'SIGHT MOLE TRAP—One of the best. Sure to "get them." Weight 2 lbs. Price \$1.00

Out O'Sight Mole Trap

GOPHER TRAP — Easy Set — Never fails. Price, each, 25c Weight 1 lb.

#### GOPHER TRAP

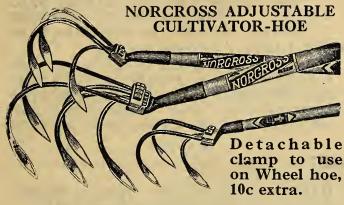
California Box-Similar to "Out O'Sight," except this trap has sides boxed up; never fails. Weight I lb. Price, each, 25c



## Garden Tools, Implements, Etc.—Continued



Hall's Dandelion Puller



Like a human hand, the fingers of the "Nor-cross" work closely around the plants without injury. Keeps down weeds, saves moisture, leaves the ground level.

FIVE PRONG for regular garden work; 4-ft. handle, weight 4 lbs......\$1.00

THREE PRONG lighter in weight, for narrow rows and close work, 4-ft. handle, weight 3 lbs.

Price 85c

#### KNIVES-Prices Postpaid

No. 8—Budding Knife—Ebony handle, stationary ivory bark opener. Price \$1.00

No. 8½—Budding Knife—Same as above, only one size larger. Price \$1.25

No. 3½ — Pruning Knife — Large horn handle, very strong. Price \$1.50

No. 4 — Pruning Knife — Polished wood handle. Price 80c

No. 7—Grafting Knife—Plain wood handle, stationary blade; smaller. Price 25c

#### GRASS HOOKS or SICKLES

The latest style and shape.

Village Blacksmith—Hand forged, weight 1 lb Price 65c



#### **GRASS SHEARS**

For trimming borders and edges; 6-inch blade. "Razor Edge"—No. 1162. 1 lb. Price 50c Village Blacksmith...No. V51. 1 lb. \$1.00

## AMERICAN GARDEN WHEELBARROW 20-inch steel wheel with 2-inch oval tire.

Solid steel wheel with 2-inch oval tire. Solid steel axle and malleable axle boxes. Oval pressed steel legs. Vermilion finish and varnished. Light but rigid—built to last. Shipped K. D.

No. 1—Size of deck 17x22x29.

Price \$7.50

#### HAND WEEDERS

Magic Weeders—Made of best quality hard steel wire, an ideal tool for fining the surface soil. We offer three sizes, illustrated above:

Magic No. A, 3 tines, short handle, weight 1 lb.

Price 30c

Magic No. 4, long handle, 4 tines.

Magic No. 5, long handle, 4 tines, heavy wire, weight 3 lbs.

Price 50c
Price 60c

weight 3 lbs. Price 60c

Fig. 21. Lang's. Weight 1 lb. Price 25c

Fig. 22 Hagelting's Weight 1 lb Price 20c

Fig. 23. Hazeltine's. Weight 1 lb. Price 30c Fig. 24. Excelsior. Weight 1 lb. Price 25c Fig. 25. Noyes'. Weight 1 lb. Price 30c

Hall's Dandelion Puller (see cut)—Pulls the root without tearing up the lawn; long handle; polished steel blade. Weight 2 lbs. Price 60c

#### GARDEN TROWELS



No. 217

Don't class these tools with the cheap stock offered by the department stores.

No. 85—New style long handle. Weight 1 lb. Price 50c

No. 217—Six inch; steel transplanting trowel. Weight 1 lb. Price 30c

No. 217A—Transplanting hoe trowel, used by gardeners in setting out plants. Weight 1 lb. Price 50c

No. 216—Ladies' flower trowel. Weight 1 lb. Price 15c

## THE OFFICIAL RAT TRAP



The Government selected this trap from among thousands of models submitted. Spring releases with either upward or downward pressure—Rats Nibble Upward. The "Official" always gets them.

Official Rat Trap, weight 1 lb.

Each 20c

Official Mouse Trap, weight 4 oz.

Each 5c



## MISCELLANEOUS FLORISTS' SUPPLIES

Prices on most items are too unsettled to list-write for quotation or send in your order—you will always get full value.

#### FOR FLORISTS AND NURSERYMEN

PLANT STAKES—Round cedar, painted green, 3-foot \$1.00 doz,  $3\frac{1}{2}$ -foot \$1.25, 4-foot \$1.50, 5-foot \$2.00, 6-foot \$2.75.

VITAPLASTIC — Glazing Compound—The best, most dependable glazing material. Never hardens or cracks. Write for circular.

Price, gal \$2.00; 5 gals \$9.50; 30 gals \$52.50

VITAPLASTIC MACHINE. Price \$5.00

TIN FOIL—Florist—Regular stock. Per lb 30c Green and Violet. Per 1b 50c

PENCILS—Waterproof, for marking. Each 15c

WIRE HANGING BASKETS-10-inch 25c, 12-inch 30c. 14-inch 40c.

GLAZING POINTS—Peerless—Best point made. No raising up when driven-no rights, no lefts, no sliding, no trouble to apply; cheap, indestructible, Once used always used. 1,000 in box. Weight 2 lbs. Price, 85c

WIRED TOOTH PICKS—2½ inches long.

WIRED MATCH STICKS—4 inches long.

WIRED MATCH STICKS—6 inches long.

NICO FUME LIQUID—See Sprays.

#### WOODEN LABELS

POT LABELS

4-inch. Plain, per 100 15c; 1,000 \$1.20 Painted, per 1,000, wt pkd 4 lbs, \$1.60 ch. Plain, per 100 20c; 1,000 \$1.55 Painted, per 1,000, wt pkd 6 lbs, \$1.90 ch. Plain, per 100 20c; 1,000 \$2.20 Painted, per 1,000, wt pkd 9 lbs, \$2.65 ch. Plain, per 100 30c; 1,000 \$2.85 5-inch.

6-inch.

8-inch. Painted, per 1,000, wt pkd 11 lbs, \$3.00

TREE LABELS—Painted iron wire.

Per 100 20c, per 1,000 \$1.65 Unpainted iron wire. Per 100 15c, 1,000 \$1.35 Painted copper wire. Per 100 25c, 1,000 \$2.00 Unpainted copper wire. Weight packed, 4 lbs. per 1,000. Per 100 20c, per 1,000 \$1.75

#### RAFFIA

In ordering Raffia by mail, be sure to add postage on 1 lb. or more.

RAFFIA—Natural color. Price 1/4 lb 20c; postpaid, 25c; not postpaid, per 1b 50c.

COLORED RAFFIA — Any shade, the popular colors being red, yellow, orange, black, blue and purple.

Per pkg postpaid 25c, per lb \$1.50

#### **GRAFTING WAX**

1/4 lb 15c, 1/2 lb 25c, lb 45c Lion Brand. Add postage at zone rate.

#### **CUT FLOWER BOXES**

We can supply Cut Flower Boxes in the following sizes. Florists write for prices.

8x16x16 x18x5 3½x30x5 5x36x8 6x40x10 X21X5 x24x8 8x20x20 3 1/2 X 2 4 X 5 x28x8 6x36x14 8x24x24

## FLOWER POTS

Florists, nurserymen and growers should send list of requirements for Special Prices FLOWER, FERN, AZALEA POTS OR BULB PANS ALL SAME PRICE

Size	Each	Dozen	Saucers	
2-inch	\$0.03	\$0.20	Each	
3-inch	.04	.35		
4-inch	.06	.50	\$0.04	
5-inch	.10	. 85	.04	
6-inch	. 15	1.25	.06	Flower pot Azalia or Fern Pots Bulb Pan Hanging Basket
7-inch	. 20	1.75	.07	HANGING BASKETS
8-inch	. 25	2.50	.07	These are well made and are better than wire
9-inch	.40	4.25	. 15	baskets, as plants do not dry out so quickly.
10-inch	.50		.18	Size Each Doz. <b>8-inch</b>
12-inch	. 75		.25	10-inch
15-inch	1.75	• • • • •	. 30	12-inch

NOTE—At above prices we will pack the pots carefully, but buyer must pay freight or express charges. We buy in carload lots and the wholesale trade, florists and nurserymen are requested to send for special prices, stating number wanted.

Porch Boxes, Japanese Tubs, Hanging Baskets, Lawn Vases, Potted Plants Specimen Ferns, Palms and Ornamental Plants furnished to order. We can assist you in securing special decorative effects for House or Garden

Tell Us Your Plans—WE CAN SAVE YOU MONEY



## The Clipper Grain and Seed Cleaner

Used by all Agricultural Colleges and by the U.S. Department of Agriculture

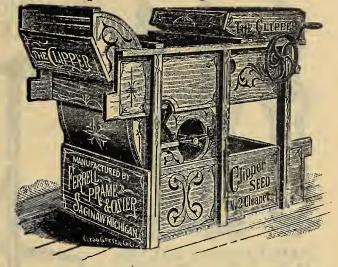
No work done on the farm brings such large returns as thoroughly preparing the grain and seed by recleaning and grading for planting. This insures an even stand of strong, healthy plants, and a larger yield of a higher grade. The "Clipper" cleaner is especially adapted to this kind of work on account of its ability to separate the small, also the light, dead seed or grain from the perfect seed or grain.

Other mills depend entirely upon screens for this

Other mills depend entirely upon screens for this work, and with unsatisfactory results. The "Clipper" screens all straw and foreign matter from the grain before it enters the air shaft, and the "Verti-

cal Blast" does the rest.

Screens are so arranged as to be in plain view and of easy access to the operator while machine is in operation, and a set of 10 being furnished with either the No. 1B or No. 2B. These are ample for general work—but special screens can be furnished for any cleaning operation.



Guaranteed to do the most perfect work of any Hand Seed Cleaner manufactured

The "Clipper" is a first-class, inexpensive and durable mill for general use.

PRICES. No. 1B—Capacity 40 bu. wheat or 12 bu. of clover per hour. Wt. packed, 200 lbs, \$39.00 No. 2B—Capacity 20 bu. clover seed per hour. Wt., packed, 250 lbs., \$47.00

We have supplied "Clipper Cleaners" to the mills, dealers and prominent growers of the Northwest. If you grow grain or seed and do not own a "Clipper," you are losing many times its cost every year. Let us send you The "Clipper" Catalog of hand and power cleaners. All sizes and prices. A "Clipper" will improve the quality and increase the yield of grain.



## **Broadcast Seed Sowers**

CAHOON—The standard broadcast seed sower of the world, made of steel, iron and brass and with ordinary care will last a lifetime. This is the most popular and best built seed sower; has a force feed and does excellent work. Instructions with each machine. Weight 9 lbs.

TIN HORN SEEDER—Adjustable. A good serviceable seeder at a very low price. Weight 1 lb.

Price \$5.00
Each 90c

Fig. 14 Fig. 16 Fig. 20 Fig. 22

CORN PLANTERS
ACME AUTOMATIC—One Hand (Fig. 20)—

Puts the right number of kernels just where you want them and at the proper depth, requiring only one hand, either right or left. Weight, packed, 6 lbs.

Price \$3.25

ACME—(Fig. 22)—A two-handed planter. Light, well made, and especially adapted to heavy, cloddy or stony soils. Adjustable—from popcorn to large kidney beans. Weight, packed, 4 lbs.

Price \$1.75

#### MASTER'S PLANT SETTER

With a "Masters" you can set, water and fertilize 10,000 plants a day and do better work than if set by hand. Works as fast as you walk. Sets cabbage, kale, celery, tomatoes, etc. Wt. 5 lbs. \$5.50

#### POTATO PLANTERS

PEERLESS—Tubular (Fig. 16)— This light tubular planter locks itself as it is lifted out of the ground and the next potato may be dropped in at once. Opens automatically by forward movement. Weight, pkd. 5 lbs. Price \$2.25

PINGREE or ACME—(Fig. 14)
—Similar in action to the tubular.
You lift the planter up to drop in the potato. Weight, packed, 4 lbs.
Price \$1.50

#### **CORN KNIVES**

NIAGARA—Broadtaperedblade. Length including handle 22½ in., weight, packed, 2 lbs. Price 50c

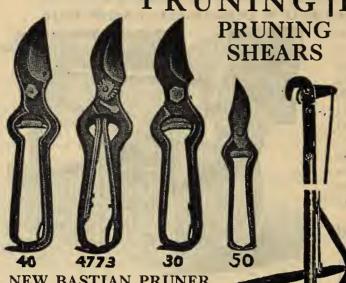
VILLAGE BLACKSMITH
—Straight blade 22 ½ in., including handle. Wt. pkd.. 2 lbs. Price \$1.00

ATKINS SILVER STEEL. 75c





## PRUNING TOOLS, ETC.



**NEW BASTIAN PRUNER** Makes a Clean Sharp Cut

The powerful lever of the new Bastian Pruner enables you to do the same work in half the time and with half the labor that would be required with old-style Pruners...

Blades are of finished Damascus steel, very strong, and hold their cutting edge. Simple in construction, light, strong and durable. We recommend the Bastian to all fruit growers.

Prices F. O. B. Spokane 6-ft...\$1.35 12-ft...\$1.9 12-ft..\$1.90 14-ft. 2.25 16-ft. 2.50 8-ft... 1.50 10-ft... 1.65 Extra Blades. Each 25c Blade Screws. Each 10c No. 4773—9-inch; full polish, with double brass springs; best American make. Weight 1 lb. Price \$2.00

No. 40—9-inch; bright finished, polished blade, spiral steel spring; made for hard service. Weight

No. 41—Same as No. 40, except with ratchet nut. Weight 1 lb. Price \$1.65

No. 30—7-inch; black finish; polished blade; very good. Weight 1 lb. Price \$1.00

No. 31—Same as No. 30, only 9-inch ratchet nut; an American make. Wt., 1 lb. Price \$1.20

No. 50—Five and a half-inch, nickle-plated; small, but of best material; fine for ladies. Weight 1 lb.

No. 51—Same as No. 50, except that it is  $6\frac{1}{2}$ inches long. Weight 1 lb.



Bastian

#### IDEAL FRUIT PICKING BAG

Made of heavy canvas, with spring steel frame—straps cross shoulders, no weight on neck. Nothing to mar fruit when emptying. Has improved patented side fastener, will save its price in a day's work.

Each \$2.00

#### Branch Shears

We offer special designs Nos. 777 and 707. The blades make a clean cut without bruisingstrong handles are securely set in steel sockets -a strong and durable shear, built for service. 

 No. 120—20-inch with lock nut
 \$2.50

 No. 126—26-inch with lock nut
 2.75

 No. 130—30-inch with lock nut
 2.90

 Rhodes Double Cut...... 3.50 Extra Handles. Each....

## PRUNING SAWS

	(Atkins Silver Steel)	
No. 1.	16-in. Straight Blade, single edge.	31.35
No. 1.		1.40
No. 1.	· · · · · · · · · · · · · · · · · · ·	1.50
No. 3.		1.45
No. 3.	18-in. Straight Blade, d'ble edge	1.65
No. 3.	20-in. Straight Blade, d'ble edge.	1.75
No. 13.	12-in. Crescent Blade, single edge.	1.00
No. 1.	14-in. Crescent Blade, single edge.	1.10
No. 10.		
	handle	2.25
No. 10.		
	handle	2.40
	Saw Blades	
141/4-in.	with holes for 16-in. frame	0.35
161/4-in.	with holes for 16-in. frame	.35
181/4-in.	with holes for 16-in. frame	.40

13½-in. with holes for 16-in. frame.....  $15\frac{1}{2}$ -in. with holes for 16-in, frame.....

#### APEX FRUIT PICKING LADDER

A pointed ladder preferred by many growers as they believe they can work closer to the tree. A strong triangular block forms the head, which is securely bolted to both side legs. The single back leg is attached by iron braces to the side legs below the head, thus distributing the strain to the entire ladder. Stock sizes are same as the King, although weight per foot is slightly less.

Price each, 6-ft \$2.65, 8-ft \$3.70, 10-ft \$4.40, 12-ft \$5.75, 14-ft extra heavy \$7.50.



#### "DIAMOND QUALITY"

## BEE SUPPLIES

FOR WESTERN BEE KEEPERS

WE ARE THE PIONEERS in the Bee Supply business in the Northwest, are thoroughly familiar with local conditions and requirements, and if you are new to the business or the country we can be of much help in saving you any unnecessary outlay, work or loss of time and can start you on the right road to success.

STOCKS ARE LARGE and complete and we can fill any size order on short notice and will give the small order just as careful attention as the larger one.

THE A. I. ROOT CO.'S BEE SUPPLIES, well-known the world over as the standard of excellence are always on hand for prompt delivery at lower prices than you can purchase them for direct, as we are agents for the Root Company and give our customers the advantage of car rates.

WESTERN PINE AND CEDAR HIVES made to our order in standard sizes and designs; of first-class material and workmanship, are very popular with local bee keepers. Our Western lumber is satisfactory and lasting and we recommend them as being economical and serviceable.

## THE MODERN BEE HIVE

## For the Production of Comb and Extracted Honey

THE illustration shows the different parts that go to make up the standard dove-tailed hive. This term refers to the construction, the bodies and supers being dove-tailed at the corners. The lower dove-tailed at the corners. The lower compartment is known as the hive body or brood chamber. This stands on a bottom board which fits close to the body but is not attached thereto. The hive stand here shown is a separate part and may be ordered as an extraction. may be ordered as an extra.

The brood chamber is the home and workshop of the bees. Contains eight or ten movable frames upon which the bees build the comb and cells for storing their stock of honey to feed upon. Also certain continue of these are used by the gueen for stock of honey to feed upon. Also certain portions of these are used by the queen for depositing her eggs. Hives are referred to as 8 and 10-frame according to the number of frames.

A thin, movable partition is sometimes used to cut off the empty frames when the colony is small. This is known as a division board. There is one in each hive body.

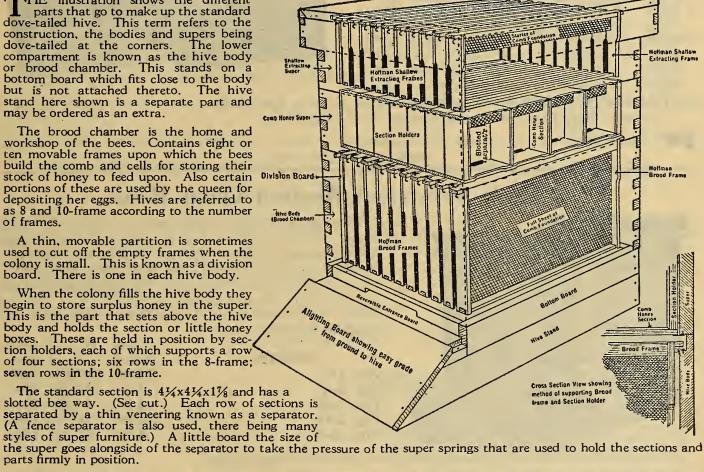
When the colony fills the hive body they begin to store surplus honey in the super. This is the part that sets above the hive body and holds the section or little honey boxes. These are held in position by section holders, each of which supports a row of four sections; six rows in the 8-frame; seven rows in the 10-frame.

On top of the super is the hive cover of which there are various styles, the Excelsior being the most popular in mild

The extracting super is not commonly used on top of the comb honey super but is placed here for illustration properly belongs on top of the brood chamber.

If you wish to produce extracted honey you place a super fitted with shallow frames over the brood chamber and bees will store their surplus honey on these frames. Full hive bodies are often used for the same purpose.

The standard 8-frame hive body is  $9\frac{1}{2}$  inches deep by  $18\frac{1}{2}$  inches long by  $12\frac{1}{2}$  inches wide. The 10-frame hive is the same length and depth and  $14\frac{1}{2}$  inches wide. Supers are the same width and length as the bodies, but vary in depth according to furniture.



Telescoping R Cover

## The Necessity for Bees in Orchards

A most interesting series of experiments on the Pollination of the Apple, conducted by the Oregon Agricultural College, proves the total inadequacy of all pollenizing agents, with the single exception of Bees. The wind, which at first thought would seem dependable, is a total failure outside of the radius of a few feet, even under most favorable conditions, and very uncertain at any distance. Some few varieties are self-fertilizing, but these are vastly improved by crossing the pollen with other sorts, and the busy honey bee seems to be our sole reliance for effective work. Fortunately bees are easily obtained, are very little trouble, and an orchard and apiary make an ideal combination from a business standpoint. This subject is well worthy the careful investigation of all orchardists, and we would be pleased to hear from those interested.



# SPOKANE SEED COMPANY'S HIVE COMBINATIONS

Our Western Pine and Cedar hives are standard sizes and well made, the mill work being first class, the material select kiln dried. They will prove durable and satisfactory in every way.

The following combinations are those in general use and should be ordered by number to avoid errors or misunderstanding. If special equipment is wanted we will be pleased to give full information and prices on request.

Fig. 1. DOVETAILED HIVE—(Complete with I super) consists of I bottom board, I body, I super, I cover, 8 Hoffman brood frames, I division board, 2 tightening springs for super, 6 section holders, 6 slotted separators, 24 sections and foundation starters for frames and sections and nails.

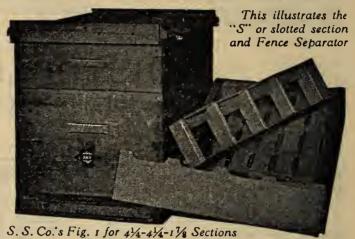
Fig. 2. DOVETAILED HIVE is the same as No. 1, less sections and foundation starters.

Fig. 3. DOVETAILED HIVE is the same as No. 1, except it has two supers instead of one.Fig. 4. DOVETAILED HIVE is the same as

No. 3 less sections and foundation starters.

Fig. 10. DOVETAILED HIVE (complete two-

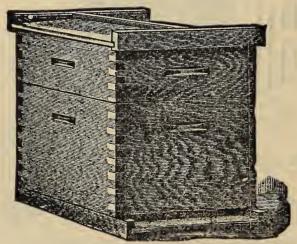
Fig. 10. DOVETAILED HIVE (complete twostory for extracting), consists of one bottom board, 2 bodies, 1 cover, 16 Hoffman brood frames, 3 division boards and nails. Order by Number



**EXTRACTING SUPERS**—In addition to the above a special deep super fitted with the Half Hoffman or Shallow Extracting Frames can be supplied.

We advise the use of the above combinations, but if you want sections or separators of other designs, make note in your order.

#### S. S. Co.'s Dovetailed Western Cedar Hives



These cedar hives are made especially for our Western trade. In construction they are the same as our pine hives, the only difference being that they are made of a superior quality of cedar, the best and most lasting wood for our Western climate. The sections and separators used in the supers are the regular No. 1 Eastern stock. Price and quality considered, these hives are splendid bargains.

	Each	K.D.	Weight
PRICES	Nailed	5	5
Fig. 1-8	\$3.90	\$17.00	140
Fig. 2-8		15.00	
Fig. 1-10		19.00	135
Fig. 2-10		16.75	126
Fig. 10-8		17.25	150

For description of numbers, see those given for our pine hives at top of page.

## S. S. Co.'s Dovetailed Western Pine Hives

This is our lowest priced hive and is the best value we can offer. It is standard size and well and carefully made of first-class lumber. The inside fixtures are just the same as in our regular pine hives and the sections supplied are of the best grade of white Eastern basswood. For general description of the different numbers see corresponding numbers and descriptions under S. S. Co.'s Hive Combinations at top of this page.

Each	K.D. Weight		K.D. Weight
Nailed	5 5	Nailed	5 5
Fig. 1-8\$3.80	\$17.00 140	Fig. 1-10\$4.35	\$18.75 178
Fig. 1-8, less Super 2.60		Fig. 1-10, less Super 2.80	
Fig. 2-8 3.40		Fig. 2-10 3.80	
Fig. 2-8, less Super 2.45		Fig. 2-10, less Super 2.70	

#### YOUR ORCHARD PROFITS DEPEND ON BEES

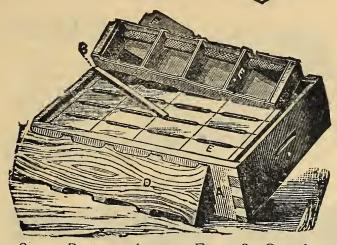
As the assurance of a crop depends upon insects as distributers of the pollen, it is necessary that apiaries be established in the different fruit sections. With favorable climatic conditions and proper planting of varieties the bees will insure pollination.



#### S. S. CO.'S DOVETAILED SUPERS

Unless otherwise ordered we always send S super for the regular stock 41/4x41/4x11/8 sections and wood separators. (See cut.)

			Nailed	Packed	
			or	in flat,	Wt.
			K.D.	5	5
Fig.	1-8	Western Pine	. \$1.40	\$6.40	40
		Cedar		6.60	35
		Western Pine		5.10	35
		Cedar		5.30	30
		Extr't'g Super Pin		5.15	40
		Empty Wes'n Pine		2.80	20
		Empty Cedar		2.95	20



Super, Designated as 4 or Fig. 1-S-Complete

For description of Super Number See Corresponding Number Describing Hives

## Hoffman Brood Frames

The Hoffman Improved Foundation Fastening Frames (see cut) are the latest, most satisfactory brood frames. The top bar is made with a beveled strip, which holds the foundation absolutely in place, perfectly straight and exactly in center of top bar. Any one can put foundation in these new frames very rapidly.

#### PRICE OF HOFFMAN FRAMES

		Per 10	Per 100
Western Pine4	$\frac{1}{2}$ lbs.	75c	6.50
Half Hoffman Wes'n2	1/2 lbs.	75c	- 6.50
Danz. Reversible2	1/2 lbs.	75c	6.75
Danz. Shallow Extract-			
ing2	lbs.	75c	6.75
The Half Hoffman Fra	ame is u	used in t	the ideal
1.0			

super and for extracting only.

# METAL SPACED FRAME.

## New Metal Spaced Frame

Recommended where there is much propolis. Spacing is accurate and frames handle easily. Price per 10 \$1.10, 100 \$10. Weight per 10, 5 lbs.

> METAL SPACERS ONLY Per 100 pair \$1.80. Weight 13/4 lbs.

#### SECTION HONEY BOXES

Our No. 1 Sections are made of the choicest white basswood lumber, and are all perfect in finish and free from defects. They are not all snow-white, but vary from that to a light cream color. Choice honey shows off to best advantage in a section not too white, as it is the honey rather than the wood that the consumer looks at. Weight 61/4 lbs. per 100.

Spokane Seed Co.'s No. 1 per 100 \$1.40, per 500 \$6.75, per 1000 \$13.50.

Our No. 2 Sections, selected from our best grade, sell at a price considerably less than our No. 1, and are correspondingly lower in quality. Most of them are equal to No. 1, except in color; some have dark spots, sawmarks, or other blemishes which exclude them from No. 1 grade. Weight 6½ lbs. per 100.

Spokane Seed Co.'s No. 2, Weight 61/4 lbs. per 100, per 100 \$1.35, per 500 \$6.50, per 1000 \$13.00.

Order any of the following sizes wanted. We have 41/4x41/4x11/8, generally used and always sent unless otherwise ordered; 41/4x41/4x7 to the foot; 41/4×41/4×11/6; 41/4×41/4×13/4.

The  $4\frac{1}{4}$ x $4\frac{1}{4}$ x $1\frac{1}{2}$ ,  $3\frac{5}{8}$ x5x $1\frac{1}{2}$ , and 4x5x $1\frac{3}{8}$  plain sections, having no beeway, are 25c per 1000 less. Different Styles of Sections.



Style 1 Beeway, commonly called closed-top



Style 2 Beeway, open top and bottom.
This style is sent when no other is specified.



Style 3 Beeway, open three sides.



Style 4 Beeway, open on all four sides.



Style 5 Plain, no beeways.



Style 5 M, 4x5x1% plain, no beeways.

For large quantities, other sizes, etc., write for special prices. If ordered by mail, allow 1c each for postage. Sample section, by mail, 1c each.

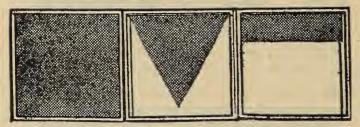


## SECTION HOLDERS

Six section holders with separators, one follower and wedge are put in each super, and each section holder holds four one-pound honey boxes. The bottom strip is ¼-inch thick, and is cut out to fit insets of sections.

S. S. Co.'s 178x181/8 inches, slotted. Weight 23 lbs. per 100. Each 4c, per 100 \$3.00

#### COMB FOUNDATION



Full Sheet, Triangular and Quarter Sheet Method of Using Foundation

There is little question but that it pays to use foundation in full sheets in the brood frames and sections, especially the latter. If you think you cannot afford so much you should at least have a strip for a starter. It will help much more than it costs you, in getting straight, even combs. You can use a starter any width from one inch up.

Our foundation is made by the "Weed process," and is a very superior article. Packed in 1, 2, 3 and 5-lb. carboard boxes in a case.

#### PRICES OF COMB FOUNDATION

When you order, be sure to tell what grade you want, and give price.

and, and grad pro-	•	No.	In Lo	ots of
GRADE	Size of	per	I	10
	Sheets	lb.	lb.	lbs.
Light Standard				
Brood	73/4×167/8	7	\$0.85	\$0.83
Extra Light Brood.		9	.90	.88
Light Section	37/8XI51/2	28	.90	.88
Extra Light Sect'n.	37/8XI51/2	30	.95	.93
Write for lowe.	st market p	rices c	on larger	orders

#### SECTION PRESSES

HUBBARD—This is one of the best machines for putting together one-piece sections. The ends are forced together by means of a toggle joint. It is made adjustable for sections of different sizes. Weight 25 lbs.
Price \$3.40

#### MANUM'S SWARMING DEVICE

A complete swarming device. The swarmer is light and will reach a swarm 20 feet from the ground. Wire basket with bail, no pole, \$2.50. Weight 3½ lbs.

QUEEN CELL PROTECTOR—Doolittle.

Each 5c, by mail 7c
WEST'S CELL PROTECTOR.

Each 10c, by mail 13c

WEST'S SPIRAL CAGE.

Each 10c, by mail 12c

Western, 178x181/8 inches, slotted. Weight 29 lbs. per 100. Each 4c, per 100 \$3.50

Danzenbaker, reversible. Weight 24 lbs. per 100. Each 6c, per 100 \$5.25

Bottoms only—1 1/8 inches wide. slotted. Western. Wt. 11 lbs. per 100. Each 2c, 100 \$1.90

#### **SEPARATORS**

One separator should always be placed between each two section holders so that the bees will build the honey comb even in each section (see illustration of supers, page 130).

Western (Veneer) 8 lbs per C; per 100 95c Fence Separators, P. or I., weight 13 lbs. per 100. Per 10 55c, per 100 \$5.00

Fence Separators, Danz., M., weight 16 lbs. per 100. Per 10 55c, per 100 \$5.00

#### HONEY SHIPPING CASES

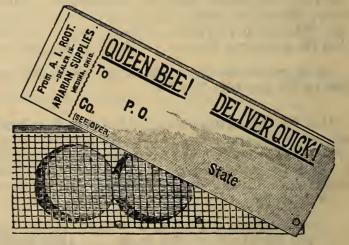
These have a glass front, and corrugated, non-dripping packing, which protects against breakage, and are designed for marketing honey. If you expect to get the best market price, you must put your honey up in nice cases.

PRICES	Nai	led
Non-drip	Ea	ch
24-lb. Eastern		.55
24-lb. for 1½-inch Sections		.50

#### ROOT'S OUEEN REARING OUTFIT

A complete set of tools and materials, with instructions, enabling one with little experience to rear his own queens at small expense. **Price \$6.50** 

## CAGES FOR QUEENS



Benton Cage

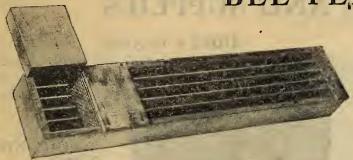
CAGES FOR QUEENS

Benton—For mailing and introducing. Each, no candy, 5c; by mail 7c.

Benton—Long distance. Each, no candy, 10c; postpaid 12c.

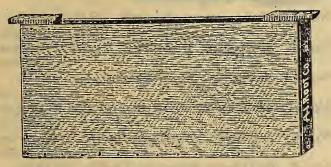
Miller Cage. Each 15c, by mail 20c

## BEE FEEDERS



#### ALEXANDER FEEDER

This is comparatively a new feeder. The bottom board slides forward, and the feeder is placed at the back and under the hive. bees go into the feeder from the brood chamber. This feeder has many good features. Weight Price each 50c 1 1/4 lbs.

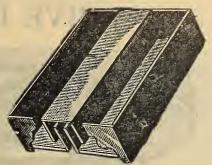


#### DIVISION BOARD FEEDER

Made to hang in brood chambers, to one side or between the frames. Weight 13 lbs. Price 55c



Boardman



Miller's Feeder

#### MILLER'S FEEDER

A superior feeder for feeding colonies their winter stores. It sets on the hive in the same space occupied by a T-super. It measures 12x18½x4½ inches, and will hold about 25 pounds of syrup. When set on the hive it effectually shuts all bees beneath it, and they enter it from below. The syrup is poured in on either or both sides. Weight 5 lbs.

Nailed up complete, each \$1.00; in flat, 90c

BOARDMAN'S FEEDER (See cut.) Weight ½ lb. Price without jar 35c



SIMPLICITY FEEDER

Weight 6 oz.

Price 20c

## FEEDING BEES

A colony of Bees should have the frames in the Brood Chamber well filled before going into the winter season. An examination of the hives after the late honey flow will show their fitness for wintering, and if any are found light they should be fed before cold weather comes, as best results are obtained when working conditions are favorable and the bees can fly.

Do not delay feeding until Spring, as Spring feeding, owing to weather conditions, is seldom satisfactory, more often resulting in loss, whereas proper precautions taken in the early Fall will result in the bees coming through strong and ready for early work.

Syrup for feeding can be made by taking equal parts of water and granulated sugar—cane sugar being preferable—thoroughly dissolving this into a clear syrup and feeding in any of the standard types of feeders. If cane sugar cannot be obtained beet sugar can be used.

August and September are good months to feed in most sections.

SEND US YOUR BEESWAX. WE WILL TAKE IT IN TRADE, OR PAY YOU CASH

## PREPARING BEES FOR WINTERING

In the mild climate west of the Cascades, Bees can be wintered in the open in ordinary hives, the double wall hives and packings, such as is commonly used in severe climates not being

An open shed or a suitable shelter should be provided that will keep the rain off, and if possible,

let in the sunlight, in fair weather.

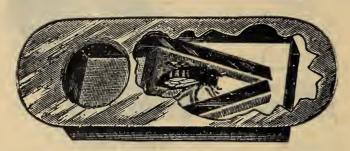
The hives should be placed on dry stands, that are high enough off of the ground to prevent any absorption of moisture from the soil, and a very important point is to raise the back of the hives enough to give good drainage along the bottom board through the entrance for any moisture that

might accumulate by condensation.

If the colonies are queenless, they should be doubled up with a colony that has a queen. This is easily done by placing a single sheet of newspaper over the top of the bottom hive and placing the hive with the queenless colony on top, the bees will work their way through the paper and mingle in perfect harmony. If a small swarm with a queen—covering four or five frames—it is best to close up the vacant space in the hive with a division board. This affords a little better condition that often enables a light swarm to get safetly through the winter.



## HIVE FIXTURES AND SUPPLIES



#### PORTER BEE ESCAPE

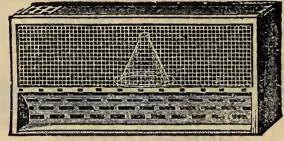
Great labor saver. Weights 2 ozs.

Price 25c, postpaid

Mounted, 8 or 10-frame. Weight 21/4 lbs. Each 75c

#### PORTER HONEY HOUSE ESCAPE

No extracting room is complete without one or more of them. Each 25c, postpaid



Alley's Combined Drone and Queen Trap

#### ALLEY'S DRONE AND QUEEN TRAP

The standard non-swarming device.

Improved Wire Front. Weight 11/4 lbs. Each, 8-frame, 85c; 10-frame, 90c

#### BEE ENTRANCE GUARDS

Root's or Tinker's. These are to admit workers, but exclude drones. Weight 1/4 lb.

Price, Zinc Front, 8-frame 30c; Improved Wire Front, 8-frame 30c, 10-frame 35c.



#### GLOVES, RUBBER

Ladies'. Sizes 7, 8, 9. Price \$1.70, by mail \$1.80 Men's. Sizes 10, 11, 12. Price \$2.00, by mail \$2.10 Men's Half Long. Sizes 13, 14, 15.

Price \$2.25, by mail \$2.35

CANVAS—Long Sleeve, Oiled.

Price \$1.50, postpaid \$1,60

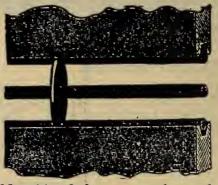
Note—To insure getting proper size, mark outline of hand on sheet of paper.

#### BEE BRUSHES

Coggshall's. (See cut.) Price 35c, by mail 40c Price 30c, by mail 35c **Dixie.** (See cut.) Price 40c, by mail 45c Bristle.

#### HONEY BOARDS

Used to confine the queen to the brood chamber. Nos. 1 and 11 are unbound zinc. Nos. 12 and 13 are wood-bound with a bee space one side.



STYLE WOOD AND WIRE **HONEY BOARD** 

No sharp edges for the bees to pass over.

No. 11. 8-frame, unbound, 12x19½ inches. Each 55c

No. 1. 10-frame, unbound, 14x191/8 inches. Each 60c

No. 13. 8-frame, wood-bound, 131/8x20 in. Each 70c

No. 12. 10-frame, wood-bound, 16x20 inches

Each 75c No. 8. 8-frame, wood and wire, 131/8x20 in. Each 80c

No. 7. 10-frame, wood and wire, 16x20 in.

8-frame, 7-wire 10-frame, 7-wire

Each 85c Each 95c Each \$1.00



Zinc Honey Boards No. 12 or 13 No. 1 or 11

#### PERFORATED ZINC

Used for making honey boards, also entrance guards, queen and drone traps, etc.

Perforated sheets, each 32x96. Weight 6 lbs, \$5.50. Less than a sheet, per square foot. Weight  $4\frac{1}{2}$  ozs, 30c.

#### HONEY KNIVES



"Novice" Honey Knife

Novice. Bingham.

Price \$1.25, by mail \$1.30 Price \$1.50, by mail \$1.55

F IF YOU HAVE AN ORCHARD YOU SHOULD KEEP BEES. THEY ARE THE ONLY DEPENDABLE POLLENIZING AGENTS. FULL INFORMATION ON REQUEST

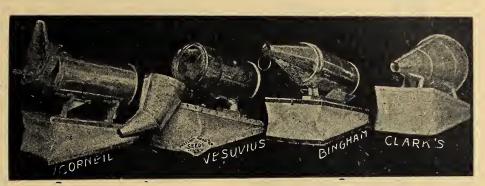
# Hive Fixtures and Supplies—Continued SMOKERS

Every owner of a hive of bees should have a smoker. A few blasts of smoke will quiet the bees so that they can be handled with safety. (See cut of the leading kinds.)

#### CLARK'S COLD BLAST

Root's—A dependable smoker. Extensively used in the West. Weight 1 1/4 lbs.

Price \$1.10



#### IMPROVED CORNEIL

Makes a good, strong blast. The most satisfactory and serviceable smokers.

Standard size, 3¼-inch. Weight 2 lbs. \$1.50 Standard Jumbo, 4-inch, wt. 2 lbs. \$2.00

#### BEE VEILS

Globe. Has five bars that will keep veil away from head. Weight 6 oz. Price \$1.60

Hat Veils. These veils have a rubber band round the top, so as to fit the hat snugly.

No. 1 Veil, made entirely of silk tulle.

\$1.60 postpaid

No. 2 Veil, cotton tulle, silk face.

No. 3 Veil, cotton tulle throughout. \$1.20 postpaid
Alexander. \$1.70 postpaid

#### No. 30 TINNED WIRE

3/4-ounce spools.	Each 10c
1/4-pound spools.	Each 25c
½-pound spools.	Each 40c
1-pound spools.	Each 60c
5-pound coils.	Each \$2.50

#### **BINGHAM SMOKERS**

Strong, well made, serviceable.

Bingham Little Wonder. Weight 1 lb. \$1.10 Bingham Engine. Weight 1½ lbs. 1.85

#### T-TINS AND RABBETS

Per 10	Per 100
Tin Rabbets, 12-inch25c	\$2.40
14-inch30c	2.50
T-Tins, 13-inch	2.35
15-inch25c	2.45
Flat Tins, 13-inch20c	1.50
15-inch20c	1.55

DIVISION BOARDS. Weight 5 ozs. per 10.

Each 15c, 10 \$1.25

FOLLOWERS. Each 5c, 10, 50c HIVE TENT. Weight 6 lbs. Price \$6.25

HIVE CLAMPS. With screws per pair 10c, 10 pairs 90c, add 3c pair postage for single

HIVE TOOL. Root's Nickel Steel. Each 70c TIGHTENING SPRINGS. Each 1c, 10, 10c

## HONEY AND WAX EXTRACTORS



Price \$73.00 Novice Two Frame—For any size frame not over 9½ by 18½ inches; not reversible; wt.45 lbs. Price \$28.00

Cowan Two Frame—Reversible extractor. This is a well known extractor. Weight 85 lbs.

Price \$38.50

#### THE HATCH PRESS

The Hatch Wax Press will save over 98 per cent of the wax, producing a very superior grade, and is the most serviceable and economical wax extractor for the average bee keeper.

Price \$20.00

#### DADANT UNCAPPING CAN

This is made up of two 20-inch galvanized cans fitted together, the upper can for the cappings, the lower for the drippings of honey that percolates through the screen that supports the cappings. No heat is used. Weight, packed for shipment, 56 lbs.

Price \$14.50

#### ROOT CAPPING MELTER

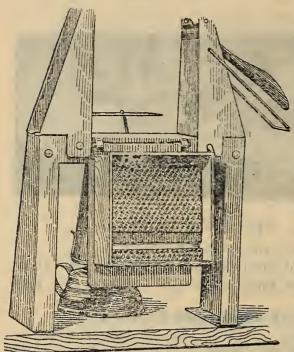
This consists of a table-like frame resting on a water-jacketed can, heated from below so that the cappings falling into the receptacle are quickly melted and run off—the wax and honey can be separated as fast it as it accumulates.

A single burner gasoline or oil stove can be used. Write for Prices



#### WOODMAN'S SECTION FIXER

A Combined Section Press and Foundation Fastener of Pressed Steel Construction



This machine folds or forms comb honey sections and fastens top and bottom comb foundation starters all at one handling, thus saving a great amount of labor. It can be arranged for any width,  $4\frac{1}{4} \times 4\frac{1}{4}$  or  $4\times 5$  sections. Other sizes 50c extra for special adjustment. Top and bottom starters insure the comb firmly attached to all four sides, a requirement to grade fancy. Special circular with 10 illustrations fully describing the same.

This is the only machine on the market from which the section comes away right side up, with the large piece or top starter hanging down. It does not become loosened in reversing as with other machines. Another advantage it has over all others is that you always handle large pieces of foundation in putting in bottom starters. A large piece of foundation is set and then cut off by the hot plate, leaving the bottom starter, the balance of the sheet being used for the large or top starter.

The Alcohol Lamp is a decided improvement, giving a very hot flame entirely free from soot.

Price without lamp, \$4.00; shipping weight 4 lbs. and 4 ounces. Alcohol lamp 50c. Kerosene lamp 40c. Extra form block 25c; weight 5 ounces.

#### FOUNDATION FASTENERS

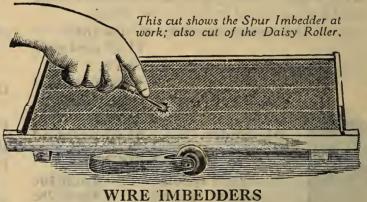
Parker's. A satisfactory and serviceable tool. Price 50c Weight 1 lb.

Daisy Foundation Fastener. Will put starters in better and faster than any machine before introduced. Weight 51/2 lbs.

Price, without lamp, \$1.50 Daisy Roller. Price 15c Van Deusen Wax Tube Fastener. Price 35c Root's, complete with lamp, 95c

WIRE IMBEDDERS

Spur Wire Imbedder. Teeth set so as to ride the wire while imbedding it. Weight Price by mail 45c 4 ozs.



#### ITALIAN BEES

We can usually supply good colonies of Italian Bees in dovetailed hives complete with Queens in good working condition.

Bees must go by express and the best time for delivery is early spring.

QUEEN BEES

We supply Italian Queen Bees tested and untested at seasonable times. These can be sent safely by mail and if you have black bees or Hybrids you can easily make them into Italians by introducing a pure bred tested queen. It takes about five days to get these from the apiary, so do not expect queens by return mail. Write for prices of Queen Bees and Colonies.



## BEGINNERS' OUTFIT

To the inexperienced we recommend the following complete equipment—all that is necessary

to make a start with bees.

1 Copy A B C and X Y Z Bee Culture.

1 Fig. 1-8 P. S. Co.'s Dovetailed Western Cedar Hive.

1 Clark's Cold Blast Smoker.

1 Bee Veil No. 2.

1 Parker Foundation Fastener. 1 Porter Bee Escape, Mounted.

1 Pair Long Canvas Gloves. "GLEANINGS IN BEE CULTURE"—The best bee magazine published, will be included with this outfit—a year's subscription.

PRICE Without Bees \$10.75

F. O. B. Spokane

BEES can usually be purchased near your home and it is best to have them examined by an experienced man to see that the colony is in a healthy condition.

ITALIAN BEES (the leather colored), are to be preferred but any strong colony is all right for we can supply pure bred Italian Queens that will soon Italianize the colony as the worker bees live but a short time. If unable to get bees, write us, we will try and secure them for you.

## **BOOKS FOR BEEKEEPERS**

C—Indicates Cloth Cover.	Freight or Express	Post- paid	P—Indicates Paper Cover.  Freight or Express	Post- paid
ABC and XYZ of Bee Cultur by A. I. Root and E. R. Roo	ot,	1 2 2	First Lessons in Bee-Keeping, by C. P. Dadant, 150 ppC 1.00	1.05
850 pages Langstroth on the Honey Be		\$2.65	Scientific Queen-Rearing, by G. M. DoolittleP 1.00	I <sup>1</sup> .05
revised by Dadant, 575 pp	C 1.50	1.60	Out-Apiaries, by M. G. Dadant,	1.05
Mysteries of Beekeeping Explained, by M. Quinby		1.60	The Buckeye Bee-Hive, 80 pp. P	.10
Fifty Years Among the Bee by Dr. C. C. Miller, 352 pages	s, .C 1.00	1.10	Answers to 150 Questions Commonly Asked on Bees, 72 pp	. 10
Beekeeping, by E. F. Phillip		2.10	Bee Diseases, by E. R. RootP Habits of the Honey-Bee by	. 10
Productive Beekeeping, k Frank C. Pellett, 6x8½ in	ı <u>.</u> ,		E. F. PhillipsP  Feeds and Feeding E. R.	.10
302 pp	y,	2.60	Root	. 10
Frank C. Pellett, 300 pp		2.60	M. P. Pritchard	. 10
Advanced Bee Culture, by V Z. Hutchinson, 200 pp		1.10	How to Produce Extracted Honey, 40 ppP	. 10
A Thousand Answers to Be Keeping Questions, Mille			Wintering Bees, E. R. Root P Use of Honey in Cooking, 64	. 10
276 pp, 5½x8 in		1.35	ppP .10	. 15

## Bee Papers

Per year	Per year
American Bee Journal (published in	Domestic Bee Keeper (published in
Illinois)	Michigan)

NOTE—Any one of the above monthly bee papers will be clubbed with any one of the bee books that cost \$1.00 or more, for 75c extra.

## Before You Get Your Bees, Choose a Location

Generally speaking, bees are not very cross on arrival as the shaking they get causes them to fill themselves with honey and in this condition they are easily handled and not disposed to sting. Level up stand for bottom board, place hive where wanted; always open entrance first, using as little smoke as possible. The bees will boil out with a rush, although making quite a fuss, they will not likely be very cross and sting. You can then remove screen on top of hive, replace the cover, seeing it is down tight, leave alone for a day or so, then manipulate as necessary.

Do not condemn a colony of Italians because a few black bees appear; bees mix and visit among themselves. Italians as imported do not produce golden bees. Most of the darker strains are

better honey producers than the golden bees. Straight five banded bees have been produced by selection but have not accomplished much as honey gatherers when compared with the leather colored, neither have they proven as hardy.

Don't get excited if a bee starts after you.

Don't fight and slap; walk away a few paces, keeping face down, as a bee cannot fly upward Don't use too much smoke, just a few puffs is generally sufficient.

Don't pinch the bees in handling or in taking out the frames; that makes them cross.

Don't stand in front of the hive while working with the bees.

Don't forget that bees are the most interesting and profitable insects in natural history.

## Free Booklets For Bee Keepers

Bee-Keeper and Fruit-Grower. Food Value of Honey. How to Build up an Apiary from a Pound Package of Bees.

Bees for Pleasure and Profit. Better Bee-Keeping. Sweet Clover Growing.

BEESWAX Send us all you have, we will take it in trade or pay you the market price in cash according to grade.







The only
Milker
with the
Upward

Squeeze

Why you should have a

SHARPLES MILKER

No one task about a farm is quite so uninviting as milking by hand

the long line of cows twice a day the year around. The nightmare of the dairyman has been to get and keep good, reliable, efficient milkers who would stay right on the job twice a day three hundred and sixty-five days a year.

The Sharples Milker fills all requirements for an efficient milker even better than the best hand milker. With it one man can do the work of four to six men and do it better in every respect.

The Sharples Milker is absolutely reliable; is cleanly beyond any comparison, excluding all possibility of dirt or even stable air; more gentle, more regular than the human hand; also more efficient in preserving soft, pliable, healthy teats and in quickly and thoroughly drawing the milk.

The Sharples Teat Cup, having the patented "Upward Squeeze" action, makes Sharples succeed where others fail; it is the fastest milker known. Hence the Sharples teat cup, combining both the healthful massage and the fast milking, will, on the average, get more milk per year from the cow than is possible by any other method of milking.

## BOYS GOOD OPERATORS

Operating a Sharples Milker entails very little labor and a boy, whose minor strength would be of little value for ordinary farm work, can take a man's place at the machine and leave the hired man free for the harvesting and other heavy work. Sharples Milkers are now being run successfully in many localities by wide-awake boys.

Special illustrated Catalog and full information on request

Write or phone us about installation

## SHARPLES CREAM SEPARATORS

TE are Northwestern Agents for the splendid products of the Sharples Co. Their new "Suction Feed" Separators are the only Separators that will skim clean at any speed and this feature alone guarantees one-fifth more cream than can be saved by any other separator.

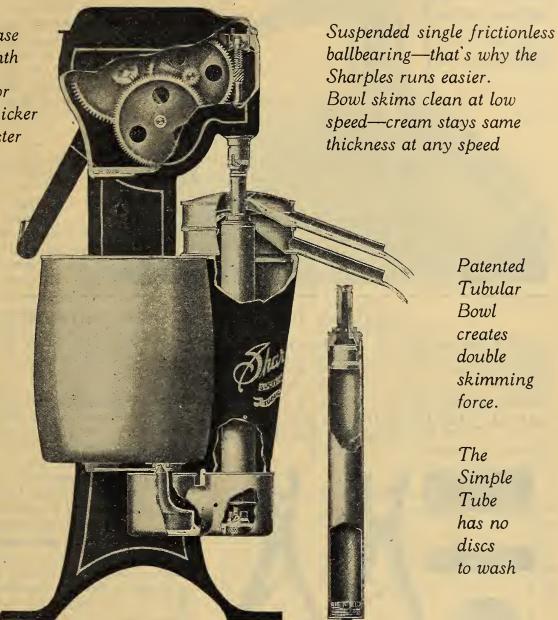
Oil Tight Gear Case Oil Once a Month

The only Separator which skims quicker when turned faster

No need to watch your speed

"Suction Feed" sucks milk into Bowl in proportion to speed—result clean skim at any speed

The only Separator with knee low Supply Tank



Patented Tubular Bowl creates double skimming force.

The Simple Tube has no discs to wash

OU ARE FAMILIAR with the well-known advantages of the regular Tubular Separator. You know the simple, tube-shaped bowl, with its enormous skimming force (double that of any other machine made)—no discs, easily cleaned, almost indestructible. You know the advantages of having all the gears solidly encased and running in oil. You know how the bowl hangs from a single ballbearing, spinning naturally, instead of being supported from below.

The "New Sharples" with all these advantages needs only its new features described here of which the most important is the

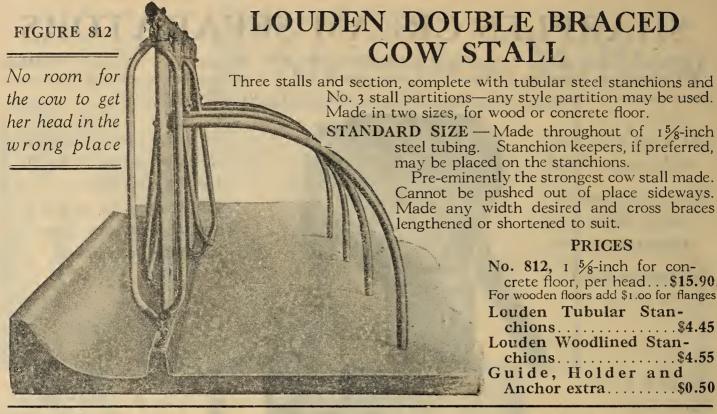
#### SUCTION FEED-

The milk is drawn up through the bottom of the bowl by the suction force of the revolving bowl—and the greater the speed the faster the separation—But at all speeds the New Sharples Skims Clean—and the cream is of a uniform density—just what you set the cream screw for—and—you get all the cream at any speed—fast or slow—and the faster you turn the greater the capacity. This is true of no other separator.

AUTOMATIC MILK SHUT OFF. UNBENDABLE SPINDLE—are only a few of the new exclusive features fully explained and illustrated in the CATALOG OF THE "NEW PRICES F. O. B. SPOKANE

No. 1—Cap'ty 175 to 250 lbs. per hr...\$70.00 No. 2—Cap'ty 250 to 350 lbs. per hr... 80.00 No. 3—Cap'ty 350 to 450 lbs. per hr... 95.00 No. 4—Cap'ty 450 to 550 lbs. per hr...\$110.00 No. 6—Cap'ty 650 to 750 lbs. per hr... 135.00 No. 9—Cap'ty 850 to 950 lbs. per hr... 150.00

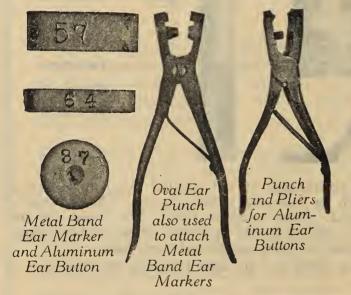




## Markers for Cattle, Sheep and Hogs

Metal Ear Labels and Ideal Ear Buttons are satisfactory and easily applied marks of identification that are indispensable to breeders and stockmen. Your name and address on one side, numbers on the other.

OVAL EAR PUNCHES—Cattle size; wt. 1<sup>1</sup>/<sub>4</sub> lb. each, \$1.75; Sheep and Hog\_size \$1.40. Postage 10c each.



Not more than ten large letters can be used on the hog and sheep size; 15 large letters on cattle size or 22 small ones. Prices Two sizes. Sheep and Hog Cattle

Prices Two sizes. Sheep and Hog Cattle 100 with name and number.....\$1.75 \$2.25 \$50 with name and number......\$1.75 \$1.50 25 with name and number.......\$1.75 \$1.50 with name only, or No. only... 1.25 \$1.75 \$2.25 with name only, or No. only... 1.25 \$1.75 \$2.25 with name only, or No. only... 1.00 \$1.25 \$25 with name only, or No. only... 75 \$2.25 \$25 with name only, or No. only... 1.25 \$25 with name only... 1.25 \$25 with

Weight for mailing, Cattle size, 2½ lbs. per 100; Sheep size, 1 lb. per 100.

## IDEAL EAR BUTTONS Pure Aluminum Hardened

Medium size, suits all animals, clinches tight cannot come out; double strength. Name and address on top side; number on bottom, or number and name can both appear on one side if not more than 18 letters and figures; if more than 18, both sides can be used to the limit of 30 letters and figures. Easily attached with special punch and pliers.

PRICES

25, wt. 3 oz....\$1.35 500, wt. 4 lbs..\$16.50 50, wt. ½ lb.... 2.00 1000, wt. 6 lbs.. 30.00 100, wt. M lb.... 3.75 Punch and Pliers, wt. 1 lb......\$1.50

## **Keystone Dehorners**

V-shaped Knives give four cutting blades. Endorsed by Colleges and Veterinarians. New blades can be fitted in five minutes. The Keystone cuts the horn—there is no grinding. Ask for special literature on dehorning.

Improved Keystone, complete with leader, rope, extra sets of blades and screws. \$16.00
Improved Dehorner. Price only. 14.00
Extra Blades for Keystone. Each 75c; by mail 9c extra Blade Screws per dozen. 30c
When ordering blades give number screw holes in each blade wanted.



## BUTTER WORKERS

## Reid's Patent Butter Workers THE ORIGINAL PHILADELPHIA

Reid's Butter Worker is very efficient. It is simple in construction, easily operated and easily cleaned. It will work a batch of butter in from three to five minutes, according to the temperature and conditions, taking out all the buttermilk and thoroughly mixing in the salt, doing the work far better and quicker than can be done by hand.

#### PRICES

No.	1-23x36	inches,	capacity	50	lbs	\$10.75
	2-20X30					
No.	3-17X27	inches,	capacity	25	lbs	7.75
	4-14X23					

#### BUTTER WRAPPERS

#### **BUTTER CARTONS**

No. 1 Cracker Box Pattern.

No. 1 Tuck End Pattern.

Send for samples. Can be printed.

Per 100 \$1.00
Per 100 \$1.10
Write for prices.

#### REID LAFAYETTE BUTTER PRINTER

The Lafayette is the most rapid printer in the world, with a record of 350 lbs. of butter per hour. It is self-gauging, and is used especially for reprinting butter.

#### Prices of Lafayette Printers

For either lb. or ½-lb. printer, without
table\$11.00
For either lb. or ½-lb. printer, with table,
complete \$17.50

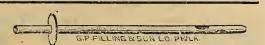
Floating Dairy-Mercury

## DAIRY THERMOMETERS Each

Produing Dany—Welcury
Tycos Dairy
Floating Churning—Tycos
10° to 110°
Pasteurizing—30° to 220° 2.50
Quevennes Lactometer—With
Thermometer in stem 4.00
Veterinary—Tycos 1.50
Lactometer—(Milk, per cent scale,
New York Board of Health Pattern)
o to 20; 2 degrees graduation.

#### Each 50c

All thermometers and glassware sent at purchaser's risk of breakage.



#### MILKING TUBES

	Plain	Retaining
2-inch Plated		35c
3-inch Plated	30c	40c
4-inch Plated	35c	50c

#### Reid's Self-Gauging Butter Printer

The Reid Self-Gauging Butter Printer is designed not only to print the butter, which it does very neatly and quickly, but also to weigh or gauge it into pounds or half-pounds, as desired.

#### PRICES°

For one-half pound Printer	\$14.00
For pound Printer	14.00
For both pound and half-pound Printer,	
combined	17.50
For two-pound Printer	16.50
\$1.00 extra for initials or monogram.	

The regular size of a half-pound print is  $3\frac{5}{8}$ x2 $\frac{1}{4}$ x1 $\frac{7}{8}$  inches; of a pound print,  $4\frac{3}{4}$ x2 $\frac{1}{2}$ x2 $\frac{1}{2}$  inches; of a two-pound print, 6x3 $\frac{1}{4}$ x3 inches. Special sizes can be made to order.

#### EXCELSIOR BUTTER MOLD

This improved Butter Mold and Stamp is self-weighing or gauging. Price, each, \$4.50

#### ECONOMY BUTTER MOLD

All wood. Brass screws. Each \$1.25

#### BUTTER COLOR

Wells & Richardson	Co.'s	Dandelion	Brand
33/4 Oz. Bottles			\$0.35
i Gal. Cans			. 4.75

#### HANSEN CHEESE COLOR

#IIIII (OE)I (	CILLIA	COLOIL	
12 Tablets			30c

#### RENNET TABLETS

Box of 2	doz	 	\$1.00
			8

#### BABCOCK TEST GLASSWARE

Milk Bottles 10%	Each 🖇	0.25	Doz,	\$2.50
Cream Bottles 30%			Doz,	
Cream Bottles 50%	.Each	.35	Doz,	3.50
Skim Milk Bottles	Each	.75		
Pipettes 17.6 c.c	Each	.20	Doz,	2.00
Pipettes 18 c.c	Each	.20	Doz,	2.00
Acid Measure		.15	Doz,	1.50
Sulphuric Acid Hydron	meter			0.75
		mark .		

Sulphuric Acid for Babcock Test.
9-lb Bottle \$1.30

Carboys—Write for price.

#### CHATILLONS—Spring Balance

		L	712	113	S	ın	)U	n	C	es	5 (	IC	]	I C	rJ	1	p	υl	ır.	IC	ıs		
30	lbs.																						. \$5.00
60	lbs.																						6.00
																							. 10.00

#### TEST SCALES

Torsion Balance, 1 bottle	Price	\$21.00
Torsion Balance, 4 bottle		
Torsion Balance, 12 bottle		
Torsion Balance, Moisture Test		
Send for Catalog.		

## The Sharples Suction Feed is the ONLY Cream Separator in the world

THAT WILL SKIM CLEAN AT ANY SPEED

Turned as slow as 36 or as fast as 55 the cream is just the same. The faster you turn the faster it skims—and always gets all the cream—and is the easiest to clean—no dics, less parts.

An All-American Separator, made in America by an American.—See Page 135



## DAIRY SUPPLIES—Continued

#### Reid Corrugated Milk Cooler and Aerator

The cooler is suspended by the brackets from a wall or post, the cold water enters the cooler at the lower inlet pipe from a barrel or reservoir, flows to the opposite side, then up through the corrugations and passes out at the top.

The milk in the reservoir flows out at the faucet, is distributed by the perforated trough, flows down over the outside of the cooler in a thin film into the can below.

The cooler is hinged at one end, needs not be taken down to wash. Having no sides or ends to the corrugations, and the bottom being removable, there are no corners to clean.

The coldest water is at the bottom, therefore the milk is practically cooled to the temperature of the water when it leaves the cooler. We claim that the **Reid Corrugated Cooler** has more actual cooling surface to the square inch in proportion to the size than any other corrugated cooler. It is absolutely the best on the market.

Our coolers are well made of heavy tinned copper with Removable Troughs.

#### PRICES

No. 1—Capacity 45 gallons per hour.	
No. 2—Capacity 55 gallons per hour.	25 cowsEach, 45.00
No. 3—Capacity 65 gallons per hour.	40 cowsEach, 52.50
No. 4—Capacity 80 gallons per hour.	60 cowsEach, 57.50



Each Cooler is furnished with Milk reservoir, faucet for water barrel, brackets, two troughs and hose.

The capacity of the Corrugated Cooler, as given above, is for Milk at the initial temperature of 95 degrees or animal heat.

#### **CHURNS**

## Perfection Jr. Combined Churn and Butter Worker

#### Special Descriptive Literature on Request

No. 1—Capacity 10 to 60 lbs., weight 300 lbs. No. 2—Capacity 12 to 80 lbs., weight 380 lbs. No. 3—Capacity 20 to 100 lbs., weight 400 lbs.

No. A3—Capacity 25 to 150 lbs., weight 450 lbs.

Write for Prices

## DAIRY BARREL CHURNS Write for prices

No. 0—Weight 30 lbs, capacity 1 to 2 gals. No. 1—Weight 35 lbs, capacity 1 to 4 gals.

No. 2—Weight 40 lbs, capacity 2 to 7 gals.

No. 3—Weight 45 lbs, capacity 3 to 9 gals.

#### DAVIS SWINGING CHURNS

Swings like a pendelum. No machinery inside. Easily operated. Greatest concussion.

Sizes	Will Churn	Price
No. 1	4 gals. or less	\$12.00
No. 2	5 gals. or less	13.00
No. 3	8 gals. or less	15.00

#### **BRUSHES**

	ach	Doz.
No. 81—Gray bristles, 3-inch diam.,		
for Turbine\$	0.50	\$5.00
No. 86 — Russia bristles, 3-inch		
diam., 10-inch handle	.50	5.00
No. 121 — Gray bristles, 3-inch		
diam., 5-inch handle	.50	5.00
No. 61—Chinese bristle top, no tuft,		
10-inch handle	.35	3.50
No. o8—Can scrub	.60	6.00
No. 416—Can scrub, with handle.	.65	6.50
No. 286—Cooler brush	.35	3.50
No. 106 — Babcock Milk Bottle		
Brush	.15	1.50

#### BARN BROOMS

Each Doz. No. 0286—4-row, 14-in.. \$1.00 \$10.00

#### **COW BRUSHES**

No. 254—Fibre......\$0.50 \$5.00 No. 259—Rice Root.......75 7.00 TOWERS' FISH BRAND APRONS

Double, oiled, 36-inch.....Each \$1.60

Heavy duck, 36-inch.....Each 2.25

Write for Special Catalog of Barn

Equipment

Turbine Brush

Tinware

Railroad cans, side handled delivery cans, cream cans, strainers and pails. Write us what you want and quantity for special quotation.



## SANITARY TINWARE

CREAM PAILS Each 3-gallon. \$1.40 5-gallon. 1.75  MILKING PANS 14-qt. Sanitary Open Pattern. 1.00 14-qt. Sanitary Fishmouth Pattern. 2.00 14-qt. Seamless Open Pattern. 1.80	MILK DIPPERS 1-qt. Heavy, Long Handle \$1.00  SHIPPING CANS (Write for Prices in quantities). 5-gal. Climax, 10½ lbs \$4.80 10 gal. Climax, 16½ lbs 7.00 5-gal. Elgin, 13 lbs 5.35
14-qt. Sanitary Open Pattern.1.0014-qt. Sanitary Fishmouth Pattern.2.0014-qt. Seamless Open Pattern.1.8014-qt. Seamless Fishmouth.3.00	5-gal. Climax, 10½ lbs
14-qt. "Sterilac" Sanitary 3.50  MILK STRAINERS 3-qt. Seamless for pan \$1.00 6-qt. Seamless for pan 1.25 10-qt. Seamless for pan 1.50 10-qt. Buhl Seamless Can Strainer 1.75  MILK STIRRERS Sampler Pattern \$0.90 Perforated Pattern .90	DELIVERY CANS, Side Handle, Chained Cover.         1-gal. XXX Tin.       \$1.25         2-gal. XXXX Tin.       1.50         3 gal. XXXX Tin.       1.80         1-gal. "Reno" Steel.       2.55         2-gal. "St. John" Steel, 7 lb.       3.50         3-gal. "St. John" Steel, 7 3/4 lb.       4.00         3-gal. "St. Francis" Steel, 6 lb.       3.90

#### Sanitary Bottle Delivery Cases

#### Reinforced Wood

12 quartsEach \$1.55
20 pints 1.55
20 half pints 1.65
GALVANIZED BOTTLE CARRIERS
With handle—holds 6 bottles\$1.25
GALVANIZED BOTTLE CARRIERS
With handle—holds 8 bottles \$1.75

#### **Bottle Washer**

Steam Turbine. Runs with 10 lbs. steam pres-Price, \$27.50 sure.

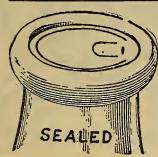
#### Milk Bottles

Best Flint Glass. High neck wh	ich shows max-
imum cream line.	
Quarts	.\$1.25 \$12.95
Pints	. 1.00 10.15
½ Pints	85 8.15
1/4 Pints	80 7.90

#### LEAD CAN SEALS

A sealed can insures delivery of your milk exactly as it leaves your hands—protects both shipper and dealer. Tinned Double Wire, per thousand......\$2.75

Seal Press..... Lettered jaws for seal press, 50c extra.



## **Bottle Caps**

Round, no lift.. 1000, 40c Perfection lift . . 1000, 50c Lipped......1000, 42c

Write for samples and special prices on caps, printed to order with your name and address

## Red Cross Filter Cloth

Woven cloth with cotton on one side, ready for use, rolled in sealed cases; 17 inches wide, 20 feet long. Sample on request. Rell \$1.20

## Diamond Crystal Salt

The salt that is all salt. The only salt over 99% pure. Made especially for buttermakers. 14-lb bag 40c, 280-lb barrel \$6.10

## BABCOCK TESTER--MODEL 8

The most accurate and best built tester. Case is one solid piece, weighing about 4 pounds. Crank and shaft a single solid piece of steel. Worm spindle and gear solid steel and iron mesh full width.

Buckets solid brass. Gear worm runs in oil. Model 8 Babcock Testers are guaranteed perfect in workmanship and material, all are equipped with full set of glassware, bottle of acid and brush. Shipping weight 15 pounds

Accurate skim milk bottles at 60c each; \$6.00 per dozen; postage 10c for single bottle.

Prices Babcock Testers

Trices Dabcock Testers						
No. 4—2 bottles, milk only\$5.00	No. 6—4 bottles, milk only\$6.00					
No. 5—2 bottles, milk and cream 5.50	No. 7—4 bottles, milk and cream 6.50					
Larger sizes and Power Testers—write for price						

#### COMPOSITE TEST JARS

Aluminum Top. Price 2-oz 50c doz, \$5.00 per gross

#### SKIMMED MILK LABELS Price 500 \$1.00, 1000 \$1.90

Butter Milk and Cream same price.

## **S** BARN PLANS FREE

The Louden Machinery Company maintains an architectural department which will work over your proposed plan and show you many ways to save space and time in handling your barn work. There are no charges attached to this service. Free Barn and Plan Book Sent on Request.

Special Catalog of Stanchions, Stalls and Litter Carriers on application





### KOW-KURE Makes Poor Cows Good —Good Cows Better, and Makes More Money for Cow Owners.

#### "THE HOME COW DOCTOR"

A handbook for cow owners, describing diseases that affect a cow's productivity and telling how to prevent and cure them in a single cow or a whole herd. Free on request.

KOW KURE is different from anything ever discovered for cow troubles. It is the only cow medicine that is strictly for cows only. It is not a stock food, but a specific remedy especially for cow diseases, such as Barrenness, Scours, Milk Fever, Caked Udder, Bloating, Red Water, Swelling of Bag, etc. It prevents abortion and removes retained after-birth. It tones up the system, renews vitality, restores appetite to cows that are "off feed," and keeps them healthy. Makes poor cows good, good cows better, and makes more money for cow owners. It increases the milk flow, and enables the cows to produce strong, vigorous calves. It's the dairyman's gold mine, and a sure profit-payer.

Price 60c, cans wt. 13/4 lbs-\$1.20, cans wt. 31/2 lbs

#### AMERICAN DAIRY ASSOCIATION REMEDIES

BAG BALM-A soothing, penetrating ointment for all affections of the bag.

60c packages—wt 1/2 lb.

GRANGE GARGET CURE—An unsurpassed 60c cans-wt 2 lbs. and positive cure.

HORSE COMFORT-For wire cuts and all flesh wounds.

30c bottles wt 1 lb—60c bottles wt 2 lbs. AMERICAN HORSE TONIC-A general improver for horses.

30c boxes wt 1 lb-60c boxes wt 2 lbs.

**Increases Milk Production** 20 Per Cent

## SO-BOS-SO

Protects Stock From the Torture of Flies

CHILDS



YOUR cows will give more milk—your horse do more work on less feed if protected by So-Bos-So at a cost of less than 1/2 cent a head per day.

Horses hitched or harnessed will stand quietly or work in comfort if protected by So-Bos-So, and many run-aways will be avoided. So-Bos-So is a boon to blacksmiths.

So-Bos-So is easily and quickly applied with a hand sprayer, cloth or sponge and is the only really efficient "fly bouncer" that we have ever seen.

Be sure to look for the trade-mark as there are many preparations offered that will prove disappointing.

Gallon cans, wt. 10 lbs., each......\$2.10 Half-gallon cans, wt. 5 lbs., each........ 1.30 

## "MEDICO" Tonic and Worm Destroyer

80% of all stock losses are due to worms—only healthy animals respond to feeding; wormy stock will not thrive—your money is fattening worms

MEDICO DESTROYS the dreaded intestina and stomach worms and expels



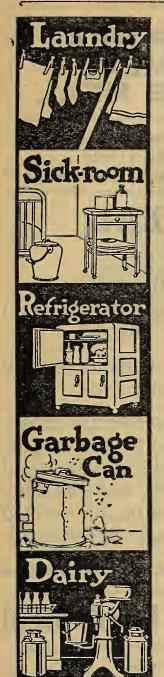
Be sure this Trade Mark is on the package

them from the system, tones up the digestive tract and keeps them away. Horses, cattle, sheep, hogs, all must have salt. A package of Medico mixed with 70 pounds of salt makes the most perfect medicated salt tonic and worm destroyer possible to obtain, and at a fraction of the cost of such preparations. Keep this salt before your stock, they will use the proper amount to keep them healthy.

PRICE: 3/4-lb pkg 40c; 5-lb pkg. Mail wt. 6 lbs. \$1.85



5 lb. pkg. to 70 lbs. salt





#### DISINFECTANT — DEODORANT — ANTISEPTIC NOT A POISON

**Powerful**—By Government method test B-K has over ten times greater germ-killing strength than carbolic acid. Much stronger than coal tar disinfectants—much safer.

Clean—B-K is colorless, leaves no stain on floors or walls.

Deodorant—B-K destroys foul odors—leaves no odor of itself. Does not soil animal's hair.

Safe-B-K contains no poison, acid nor oil.

Cheap to Use—B-K is so much stronger than other disinfectants that more water is used. It goes farther.

#### SAFE — CLEAN — POWERFUL SAVES TIME — SAVES LABOR

"BACILI-KIL" is a combination of hypochlorites stabilized by electrolysis. In our limited space, we cannot tell you all of its many uses.

Ask us to send you Special Booklets.

Sold on an Absolute Guarantee to Give Satisfaction or money refunded.

Prices, boxed for shipment, F. O. B. Spokane, 1-qt \$1.25, 1-gal jug \$3.00, 5-gal carboy \$12.50.

Dilutes 1 oz. to the gallon and more according to purpose.





### Wyandotte Dairyman's Cleaner and Cleanser

 5-1b sack
 50c

 80-1b kegs
 \$7.20 per 100 lbs.

 Single barrel, 280 lbs, at
 6.20 per 100 lbs.

 Five-barrel lots, at
 6.07½ per 100 lbs.

YOUR MONEY BACK
Get a sack of WYANDOTTE DAIRYMAN'S CLEANER and CLEANSER—use all of it—and if it is not perfectly satisfactory—return the empty sack and we will refund you your money.

#### Cattle Instruments

MILK FEVER OUTFIT. Pillings	Each,	\$3.25
GARGET OUTFIT. Pillings	Each,	3.00
TUBERCULOSIS TEST OUTFIT. Pillings for 10 cows.	.Each,	5.00
CATTLE TROCARS	.Each,	1.50
PIG FORCEPS		
LEAD PROBES	.Each,	.25
TEAT EXPANDERS	.Each,	.50
TEAT OPENERS		
TEAT BISTOURY—For cutting obstructed teats		



Milk Fever Outfit



# Blatchford

#### CALF MEAL PIG MEAL LAMB MEAL

The Blatchford Motto
FOR OVER 50 YEARS

"QUALITY is the Best Advertisement"

#### BLATCHFORD'S CALF MEAL

The Complete Milk-Equal



Sold in 100, 50 and 25-pound bags

is in reality a substitute for milk—and should not be considered as an ordinary "feed" or "meal."

It contains all the elements of milk—a "baby food" for calves.

It is absolutely the *only* milk-substitute that contains in proper proportion the elements necessary for rapid and healthy growth, and the only calf meal that is thoroughly cooked and prepared for easy digestion.

100 pounds makes 100 gallons of Complete Milk-Equal

#### From Sow to Pasture

Wean your little pigs easily, safely and cheaply on



In 100, 50 and 25-pound bags catch up.

Blatchford's Pig Meal

From Pighood to Porkage it gives big bone and solid flesh. Prevents loss of growth and vitality during the critical weaning period, and always makes the runts catch up

#### Blatchford's Lamb Meal

The Complete Substitute for the ewe's milk

Saves your lambs, your milk, your money

It is a sweet, nutritious meal for growing and weaning motherless or poorly nourished goat-kids and lambs. Every pound of it, when mixed with water or skim-milk, makes a gallon of rich substitute for the mother's milk. It is easily assimilated even by the weakest animals and is an excellent food for nursing ewes.



In 100, 50 and 25-pound bags

STOPS THE LOSS AT WEANING TIME

#### Blatchford's Milk Mash

Grows-Matures-Fattens

Prevents bowel trouble, leg weakness and carries them safely through the dangerous first three months.

Sold in 100 and 25-pound bags

#### Blatchford's "Fill the Egg Mash

Fed to your pullets when three months old will make early layers and keep them in perfect health. Does not force or fatten. Feed it to all your hens.

Sold in 100 and 25-pound bags

PRICES: F. O. B. Spokane—Subject to Market Changes

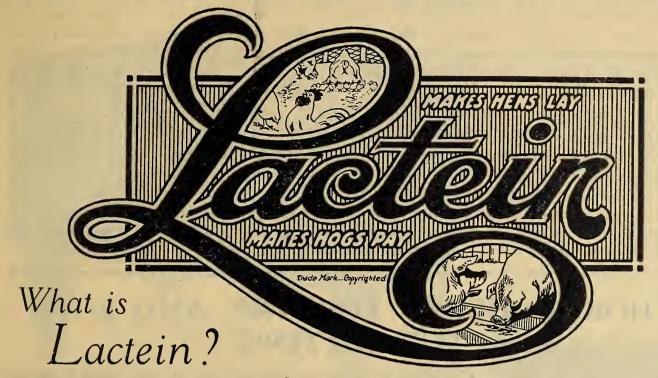
CALF MEAL — PIG MEAL — LAMB MEAL — COLT MEAL — Same Price.

25-lb. sacks \$2.10. 50-lb. sacks \$4.00. 100-lb. sacks \$7.80. MILK MASH — 25-lb. sacks \$2.15. 100-lb. sacks \$7.90.

EGG MASH — 25-lb. sacks \$1.90. 100-lb. sacks \$7.30.



#### FOR HOGS AND POULTRY



Lactein is a condensed milk product, made from buttermilk, skim milk and whey, blended together, pasteurized and the lactic acid bacteria bred or developed to their very highest degree before the product is condensed by our own special process, which retains all the health giving food and tonic values, without the useless bulk of water.

**Lactein** can be used in any way that you would use raw buttermilk and you get the full value of buttermilk with the added advantage of this product being thoroughly sterilized and pasteurized; thereby killing all injurious bacterial growth which is only too common in the raw product.

One gallon of Lactein when diluted with water makes thirty gallons of feeding solution, enough to feed 1000 hens two days or 100 hens 20 days.

**Lactein** fed with grain food makes a complete, correctly balanced egg-producing and body-building ration — feeding high-priced grain which fails to produce the maximum of eggs is a loss, but if **Lactein** is added you are assured a profit.

Lactein on account of its high lactic acid content (which preserves it) will keep pure and retain its acidity almost indefinitely in any climate, when directions are followed.

#### LARGEST POULTRY FARM IN THE WORLD= Recommends Lactein

Corless Bros., Petaluma, Cal., Mammoth Poultry Farm of thirty thousand laying hens and now making elaborate preparations for an additional twenty thousand more, and by far the largest poultry farm in the world, says:

"We have used Lactein and we are satisfied that it is a first class article, a fine tonic and egg producer. For baby chicks we consider the feeding of Lactein indispensable. You may refer anybody to us and we will heartily recommend Lactein."

If Lactein is profitable and indispensable to big successful poultrymen, it will prove just as profitable and necessary to you.

Lactein is put up in wooden barrels of 5, 10, 25 and 52 gallon sizes.

PRICES: 5 gallons \$4.00; 10 gallon keg \$7.50; ½ bbl \$18.50; bbl \$35.00

Order a barrel from your local dealer. Ask for Lactein and be sure you get Lactein. If your feed dealer does not handle Lactein we will see that you are supplied. Full information on request.

Lactein is equally valuable for Hogs, Calves, Dogs, Rabbits, Turkeys, Ducks and Geese

Ask for our Hog Circular



#### POULTRY SUPPLIES

WE ARE PIONEERS in the POULTRY SUPPLY BUSINESS in the Northwest, and our Famous DIAMOND Poultry Foods and Supplies are the standards wherever known. This Department is in the hands of trustworthy practical poultrymen—men of experience, who are competent to confer with and advise you on any subject pertaining to the raising of Poultry—a service that is free to you.

In the following pages we offer everything necessary for the successful production of Poultry and you can depend upon the supplies and appliances listed as being the standards in their line.

New Methods of brooding by the use of the Standard Colony Brooder Stoves have proven economical and successful, reducing the cost of raising chicks, developing them quickly into sturdy strong growers that make weight more rapidly than chicks brooded under old methods.

There never was a time when the future looked more promising to poultrymen than right now, and whether you keep a few chickens in your back yard, on a farm, or make a business of raising poultry, we know we can help you to succeed.

#### THOROUGHBRED POULTRY AND EGGS



FOR SETTING

SEND us your orders for Poultry or Eggs, any breed or strain, and secure the advantage of expert, critical selection, that guarantees full value for your money. We do not depend on any one breeder, but can give you the pick of the prize-winning strains at right prices.

Prices depend upon whether or not exhibition birds are wanted. But the following general list gives average prices for guaranteed thoroughbred stock from recognized fancy strains.

For fancy exhibition stock write us your requirements. We can fill the bill.

#### PRICE LIST OF EGGS FOR HATCHING

Thoroughbred Eggs	Exhibition Eggs	Thoroughbred Eggs	Exhibition Eggs
Plymouth Rocks,		R. I. Red, S. C. and	
Barred \$3.00—15	\$5.00—15	R. C\$3.00—15	\$5.00—15
White 3.00—15	5.00—15	Minorca, S.C.Black 3.00—15	5.00—15
Leghorns, White 2.5015	3.00—15	Orpington, Buff 3.00—15	5.00—15
Leghorns, Brown. 3.00—15	3.00-15	Orpington, White 3.00—15	10.00-15
Leghorns, Buff 3.50—15	5.50-15	Brahma's, Light 3.50—15	5.00-15
Wyandotte, White. 3.00—15	5.00—15	Houdans 5.00—15	5.00-15
Andalusian, Blue. 3.00-15	5.00-15	Bantams, Black Cochins	2.50-7
Anconas, Mottled 3.00—15	5.00-15	Bantam, Red Pyle Game	2.50- 7

For fancy exhibition stock write us your requirements. We can fill the bill.

Pullets and Hens range from \$2.50 each up. Cockerels \$5.00 up

#### **CUSTOM HATCHING**

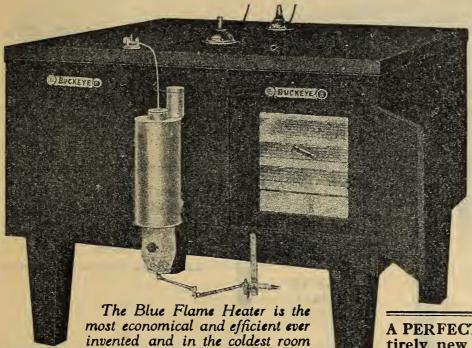
We will hatch to your order in the famous "Buckeye" incubator, at 5c per egg for each egg put in the incubator.

Eggs must be supplied in lots of 120, 240, 360, etc., as the trays hold 120 eggs each and it is very important in avoiding confusion that each tray should hold but one lot.

Make your reservations early as all orders will be hatched in rotation and the early hatched chicks are the most profitable to the owner.

EVERY MAN, WOMAN AND CHILD IN THE COUNTRY OR TOWN THAT HAS A BACK YARD SHOULD RAISE CHICKENS

#### New "BUCKEYE MAMMOTH" Incubator



A practical mammoth incubator with a capacity of 2440 eggs.

Takes a floor-space of only 5x5 feet, will pass through an ordinary door and can be set up in any building.

Burns only 2 quarts of kerosene in 24 hours and hatches big, healthy chicks from every fertile egg.

A PERFECT HATCHER. Built on an entirely new principle. The temperature cannot vary—the moisture and ventilation automatic and always correct.

The "Buckeye Mammoth" a continuous hatcher—The eggs are started in the top trays, and are worked down, so the chicks always hatch in the bottom

Only in the Buckeye Mammoth is such an arrangement possible because under the old methods all the eggs must be placed in the egg chamber at the same time as the necessary cooling could not be applied to later lots of eggs while the first lot was hatching.

In the Buckeye Mammoth the eggs require no cooling. The real purpose of the cooling period was to give the developing chicks a breathing spell and allow the poisonous gases and foul air to pass out of the egg chamber.

By the continuous circulation in the Buckeye Mammoth the air is re-vitalized and the chicks produced are larger and of exceptional vitality.

For the special convenience of those that wish to introduce fresh eggs every few days a chick guard is provided for the four lower trays. By starting all the new eggs in top trays and moving the trays down as each hatch is completed the chicks always hatch in the bottom trays where the metal guard confines them comfortably in the dark when the machine is opened.

#### SPECIFICATIONS AND PRICE

Capacity, 2440 eggs, size 5 feet square by 32 inches deep, legs 18 inches high.

The case is California redwood, cabinet con-

will consume but two quarts of kerosene in 24

hours. Equipped for gas if requested.

struction, piano finish.

Boiler 14 ounces cold rolled copper, pipes

The twenty egg trays are rigid, have wire net bottoms, and extra trays for turning are furnished. Lower trays are fitted with chick guards.

Gas or kerosene oil can be used. Average consumption of kerosene is 2 quarts, daily; gas 50 ft.

The electric fans are specially constructed with ball bearings and use very little current. tested guaranteed thermometer is included.

The incubator is completely set up and tested before shipping, and anyone can attach the legs and electric wire, no mechanical skill required.

PRICE \$450.00 f. o. b. Spokane. Weight, crated. 850 lbs.

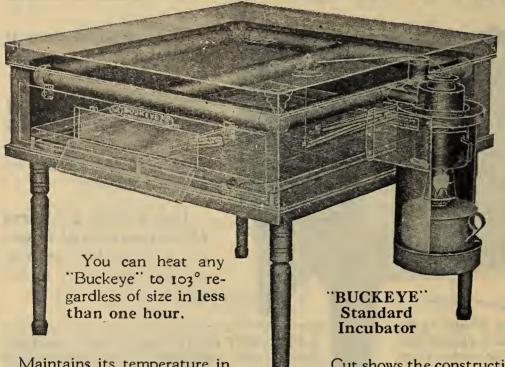
#### GUARANTEE=

The Buckeye Mammoth is guaranteed to be mechanically perfect in every part, carefully constructed of select materials. Is further guaranteed to hatch more and better chicks than any other mammoth incubator of like capacity. If for any reason the purchaser has cause for complaint regarding the machine or its operation, satisfactory adjustment will be made BUCKEYE INCUBATOR COMPANY (Signed)

Diamond Chick Food Saves little chicks. Helps them to grow into big strong healthy birds. No other food is necessary. See page 156



#### 'BUCKEYE" Hot Water INCUBATORS



You fill the lamp, turn the eggs-and the "Buckeye" will hatch every hatchable egg. No experience needed.

Nearly half a million "Buckeyes" are in operation in all parts of the United States.

No previous incubator ex-

perience is required to operate a "Buckeye." Outside of filling

Maintains its temperature in any location, from freezing weather up to 100 degrees, and once adjusted will not vary.

Cut shows the construction of a "Buckeye" Standard Incubator-built to outhatch and outlast other incubators.

#### READ THE FOLLOWING STATEMENTS FROM THE MANUFACTURER

THE unprecedented success which has followed the Buckeye for 25 years is primarily due to the invention of the Buckeye hot-water system, without which that perfect balance between the temperature, moisture and ventilation which is so necessary to successful incubation, would be a physical impossibility. Heating the egg chamber without cooking all the moisture out of the air is responsible not only for the abundant supply of natural moisture but at the same time the soft, radiated heat from the hot water tank provides an absolutely uniform temperature and permits the perfect ventilation of the egg chamber.

We guarantee the temperature of every Buckeye we build to be uniform within a fraction of a degree at all times in the egg tray.

Requires no Artificial Moisture

Regardless of the conditions under which a "Buckeye" Incubator may be operated it NEVER requires ARTIFICIAL moisture. The word NEVER sounds pretty strong and yet we mean it in its full sense. A "Buckeye" NEVER requires artificial moisture. We have sent over four hundred thousand (400,000) of them

to all quarters of the globe—to be operated under the same positive instructions—and have never found a single instance where applied moisture was required to produce a perfect hatch.

THE BUCKEYE SYSTEM of regulation is so perfectly adjusted that it works like a watch. You set the regu-

Regulation of Temperature Purely Automatic-Needs No Watching

lator when the hatch is started and you never

touch it until the next hatch. The solid, all-metal construction of the Buckeye thermostat is so positive and perfect in its action that a variation

of more than 2 degrees is an absolute impossibility. We guarantee that.

Operated in any Temperature Regardless of Sudden Changes

ANTEE every Buckeye to work satisfactorily in any temperature down to freezing.

Cold rooms or sudden changes in the temperature have no terror for the "Buckeye." Regardless of

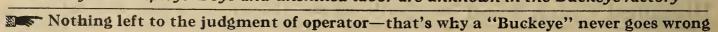
the lamp and turning the eggs, everything is automatic and requires no attention from the operator. Highest Type of Construction

Every item that enters into the construction of a Buckeye is, without exception, the best that money can buy. The lumber, the metal, the hardware, the lamp, the thermometer—every item without exception—the best.

Simplicity of

Operation

The labor that builds the raw material into the finished product is the best that money can employ. Boys and unskilled labor are unknown in the Buckeye factory





#### "BUCKEYE" INCUBATORS—Cont.

#### Styles E and H

Made of California Redwood beautifully finished, with insulated double top and walls so built as to hold the temperature perfectly even in freezing weather—this is the popular model in sizes up to 200 eggs.

A Standard Buckeye metal thermostat regulates the temperature to a fraction of a degree, is easily adjusted at the beginning of the hatch, and stays where you put it, and the temperature in the egg chamber cannot change.

The extra large tank of new design and the "Miller" lamp burner insures plenty of heat with small

consumption of fuel.

#### "BUCKEYE" Incubators Never Require Artificial Moisture

Plenty of fresh air in the Incubator room is all that is necessary to bring a big strong chick out of every hatchable egg.

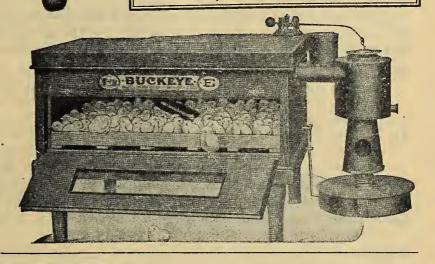
#### **EVERY "BUCKEYE"**

Regardless of size or price is guaranteed to hatch every hatchable egg

#### "BUCKEYE" No. 14

#### Capacity 65 Eggs

A genuine "Buckeye"—has all the desirable features at the lowest price a good incubator could be made for. Has the same guarantee that covers all "Buckeyes" is 21x17½x10½ inches without the legs.



# "Standard" Buckeye Incubators are made in 5 sizes from 110 to 600 eggs

#### "BUCKEYE STANDARD" INCUBATORS

"Buckeye Standard" is the Highest Grade Incubator in this line—is fireproof, bearing the Underwriter's labels and so perfect in operation that any beginner can run it successfully. The "Standard" is equipped with every desirable device to add to its efficiency, durability

and safety. The special features are the lamp shield and double wall construction.

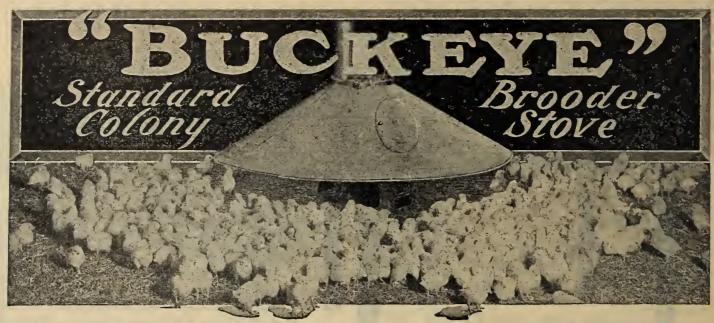
#### Every Standard Buckeye is Complete

They are equipped with every desirable device that can possibly be added to any incubator—that's why the big breeders like them. There's nothing left undone—nothing to be wished for.

#### PRICES AND SIZES OF BUCKEYE INCUBATORS—F. O. B. Spokane

Size	Wt.	Price		Size	Wt.	Price
No. 14— 65 egg, short legs						
No. 16—120 egg						
No. 17—210 egg	25 lbs.	37.50	No.	4—350 egg	230 lbs.	67.50
No. 1—120 egg	to lbs.	39.50	No.	5-600 egg	325 lbs.	110.00





This is the Famous Original Brooder Stove that has been copied or imitated by every manufacturer of Brooder Stoves

#### Self Feeding Self Regulating Everlasting

Cuts the Cost of Equipment and Operation to Less than Half-Reduces the Time and Labor to Less than a Fourth. Nothing to Break. Nothing to Wear Out. The Simplest, Safest and Most Economical Brooder Ever Invented.

BUCKEYE BROODER STOVES will do anything any other brooder will do-regardless of priceand do it better. It matters not whether you have ten or ten hundred chicks under a Standard Colony Brooder, the results are the same. You can remove part of the chicks or increase the number at any time.

Air Always Pure and Fresh-No dampers or valves of any kind between the smoke pipe and the fire, the draft being controlled automatically, an exclusive feature of the Standard Colony Brooder and the only coal-burning Brooder that is absolutely free from gases under the Hover.

Operated Anywhere—No room is too large or too small for a Standard Colony Brooder. Whether it is operated in the largest barn or the smallest colony house, the results will be the same.

Burns any Fuel—Hard or Soft coal, charcoal, coke, briquettes or gas. Hard coal is best simply because it is cleaner. All fuel should be nut size.

Regulator—Two double disc thermostats—tandem hitched—supported on substantial casting that is bolted solidly to stove. Lower arm movable and attached to check valve by substantial iron rod. Chick-proof, accurate and positive.

Standard Colony Brooder is fire-proof, simple and requires little attention; has but one adjusting nut which you need never touch more than once in a season. Requires absolutely no more attention than filling with coal once a day, shaking down the ashes into the pan twice.

The first cost is the only cost. Nothing to wear out. Nothing to break, being made of cast iron just like a kitchen range, and the Hover is of galvanized steel built to last a lifetime.

#### "Buckeye" Standard Brooder Stoves

Made in Two Sizes

NUMBER 19—Height of stove 22½ inches; diameter of stove 12 inches; diameter of base 11½ inches. Fire-proof base 7 inches high with corrugated asbestos pad attached to lower plate and I inch air space between asbestos pad and floor.

Grates—Rocker furnace type made of solid casting, outside clearance, free burning, self cleaning and anti-clog. Diameter 9 inches.

Hover—Galvanized steel 52 inches in diameter, removable, mounted on a substantial ring casting that rests on the top of the stove, moulded to fit and cannot be displaced. Furnished complete with rope and pulleys for quick attachment. One length 3-inch pipe.

Capacity any number of newly hatched chicks up to 1,000. Price \$27.50. Ship. wt. 941bs.

NUMBER 18—Same style and equipment as Number 19 but smaller. Height 2034 inches, diameter 1034 inches; Grates 71/2 inches; Hover 42 inches.

Capacity any number up to 500 chicks. Price \$22.50. Shipping weight 75 lbs.

GAS BURNERS FOR BROODER STOVES \$4.50—For 3 inch pipe for Stoves see Page 6 As the difference in cost is so little, the No. 19 is generally preferred for its larger capacity

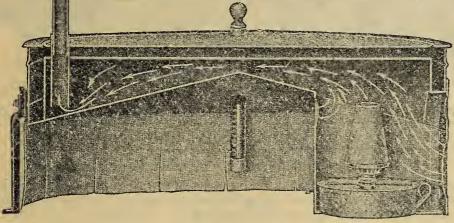
#### Pipe for Buckeye Brooder Stoves

Buckeye Brooder Stoves take 3 inch pipe in standard lengths of 24 inches and the pipe and elb ws needed can usually be purchased from your local dealer.

We supply one length free with every stove, and more can be ordered at the following prices:

Prices	3 inch pipe	for Brooder	Stoves,	f. o. b.	Spokane,	per length	30c
111003	Elbows for 3	inch pipe,	f. o. b.	Spokane	e, each		





Showing a Sectional View of the "Buckeye" Brooder

The Lamp Brooder that broods like a stove Brooder. The chicks hover at the curtain, making crowding impossible.

Note that every particle of air under the hover is drawn from the outside—then up into the upper chamber, where it is discharged through the exhaust tubes. Every particle of impurity is drawn up and out—nothing can come back.

#### IT'S A TRULY WONDERFUL BROODER—AND IT'S DURABLE

Nothing about it but metal—excepting the curtain—and that's interchangeable

**THERE IS NO WASTE OF HEAT.** The dead air space keeps all the heat in and all the cold out. This construction insures the highest degree of efficiency, and we Guarantee the satisfactory heating of every brooder in any inside temperature down to freezing.

**THE "BUCKEYE" LAMP IS NOT ENCLOSED.** This feature of the "Buckeye" Brooder is in itself one of the most valuable improvements ever made to an oil-burning brooder. It is, in fact, the improvement that makes the oil-burner just as safe as a coal-burning stove.

FRESH AIR. The constant current of fresh air over the lamp bowl prevents all possibility of overheating the oil, and absolute safety is the result. This improvement is just as good as an insurance policy. IT'S THE FRESH AIR THAT MAKES THE CHICKS GROW.

THE OUTSIDE SHELL is made of 28-gauge galvanized steel—the inside shell is 28-gauge black iron—with a one-inch dead air space between.

THE BROODER BODY is supported by three Cast-Iron Legs that are rigidly secured to the sides by a set nut, which makes them easily detachable.

THE LAMP SUPPORT is free from the floor and is welded to the plate above. The door to the lamp chamber is of galvanized steel with a large peep hole for the ready observation of the lamp.

THE LAMP BOWL is made of seamless galvanized steel—the burner is a "Miller"—all the fittings are of heavy brass and the chimney is made of sturdy black iron.

**THE THERMOMETER** is mounted on a hardwood turning which is dropped through the top of the brooder, and brings the bulb of the instrument right down to the level of the chicks. Each brooder is equipped with a thermometer.

#### = 20% BETTER HATCHES=

Baker-Hart Poultry Farm reports 20% better hatches from 600-egg Buckeye than from other incubators they have used in their many years' experience.

April 6,



The 52 inch

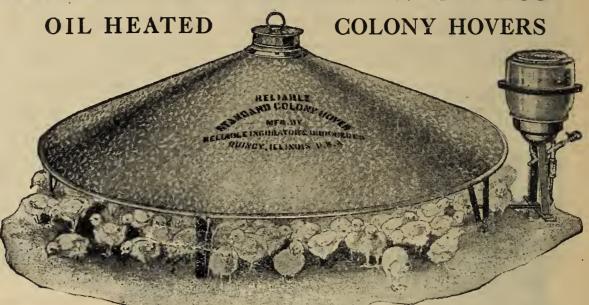
Hover has

capacity as coal

burning Brooders

same

#### THE RELIABLE BLUE FLAME WICKLESS



Burns Coal Oil—Has a clean, steady blue flame that gives an abundance of heat. No wicks to trim. No gas or fumes. Safe and economical.

THE 52-inch GALVANIZED STEEL HOVER will care for any number of chicks up to 1000. THE WICKLESS BURNER has a visible oil feed that is easily regulated and controlled. The oil container is glass and is outside of the hover—the oil being fed to the lighting ring in the center of the hover only as needed and cannot become heated or ignited by the burner.

THE VENTILATOR in the top carries out the foul air and keeps the air in the hover fresh and well ventilated. It also allows ready access to the heater without raising the hover.

THE RELIABLE has proven safe and dependable, is well made and we recommend it as being the most satisfactory of the oil burning hovers. Weight packed 48 lbs. Price \$25.00

#### "BUCKEYE" INCUBATORS PRICE LIST OF EXTRA PARTS

Thermometers for Incubators (tested) \$1.00	Extra Egg Trays (Continued)—
Thermometer Holders for Incubators	Burlap Trays for all Incubators \$1.50
Lamp Bowls for all Incubators	Incubator Legs (long)
Lamp Burner No. 2 (will fit Incubators Styles A, B,	Incubator Legs (short)
and C. Standard 1'0 and Standard 220)	
Lamp Burner No. 35 (will fit Incubators No. 60,	
No. 1, No. 2, Style E and Style H)	Egg Testers
No. 4 and No. 5)	Drain Caps for Incubators
Lamp Burner No. 3	Filler Caps for all Standard Incubator Tanks35
Lamp Chimneys for all Incubators	Filler Caps for Incubator Lamp Bowls
Lamp Wicks for all Burners, per dozen	
Thermostats for Incubators (metal) 2.50	Door Catches for Standard Incubators
Thermostats for Incubators (hard rubber) 1.50	Underwriters' Lamp Support with Gas Heater
Connecting Rod and Nut for all Incubator Regula-	Complete 4.50
tors	Buckeye Hot Water Tanks (complete)—
Lever for all Incubator Regulators 1.00	For Incubator Standard No. 1 (copper) 6.00
Brackets for all Incubator Regulators	For Incubator Standard No. 2 (copper) 6.75
Lamp Support for Standard Incubators 2.50	
Lamp Hanger for Incubators Styles A. B. C	For Incubator Standard No. 3 (copper) 9.75
Lamp Hanger for Incubators Styles E and H 1.50	For Incubator Standard No. 4 (copper) 10.75
Extra Egg Trays— For all Standard Incubators, each	For Incubator Standard No. 5 (copper) 20.75
For Incubator Styles A, B and C, each 1.25	For Incubators Nos. 14 and 15 (galvanized) 3.00
For Incubators Nos. 14 and 15 1.25	For Incubator No. 16 (galvanized) 4.00
For Incubators Nos. 16 and 17	For Incubator No. 17 (galvanized) 6.00
	must be accompanied by the exact dimensions of the tank
When ordering new tanks for old incubators, the order	indict be accompanied by the exact differsions of the talk

to be replaced. Diagrams for this purpose will be furnished on application.

When ordering new parts for old incubators, always mention the size and design of the incubator.

NOTE-Add 50 per cent to these prices for delivery in Canada.

#### EXTRA PARTS FOR BUCKEYE BROODERS

Lamp Bowls			(No. 35)\$0.75	Lamp Wicks, per dozen	30.30
	EXTRA PA	RTS FOR	STANDARD B	ROODERS	
Wafer Thermosters	@0 50 I	Stove Lid	\$0.75 I	Hover Ring	\$2.00

Lower Regulator Arms. 1.50 Upper Regulator Arms. 1.50 Half Grate (plain). 1.50 Shaker Grate. 1.50 Shaker Handle	Ash Pan	Hook Rod
Shaker Handle	Regulator Bolt with Wing Nut .20 Baffle Plate 1.00	Ash Pit 3.50
Gidto Boak	241101141011111111111111111111111111111	

NOTE-Add 50 per cent to these prices for delivery in Canada.



#### MISCELLANEOUS POULTRY SUPPLIES

LEG BANDS FOR POULTRY AND PIGEONS (SEE CUTS)

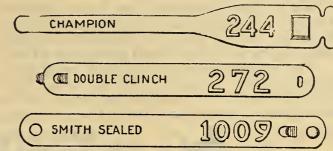
Every chicken must have a leg band on before it can be entered in a poultry show. In ordering Leg Bands, be sure to state size wanted, or breed of fowls bands are to be used on, and number wanted or males or females.

CHAMPION. Latest and best adjustable leg band out. Has neat, compact, and smooth fastening, with no catching points; easily attached and absolutely secure. Prices post-paid, 12 for 20c; 25 for 35c; 50 for 60c; 100 for 95c.

LEADER LEG BANDS. Same style and price as Champion.

DOUBLE CLINCH. A new band, very safe; no exposed corners, ends or loops; has double fasteners. Prices postpaid 12 for 20c; 25 for 35c; 50 for 60c; 100 for 95c.

PIGEON BANDS. We can supply the Double Clinch and Open Band—you simply clasp it on—at price of Double Clinch.



SMITH SEALED. Made of aluminum and so constructed that by simply crushing a soft rivet they are sealed on the bird's leg, and must be destroyed to be removed.

Prices postpaid, 12 for 30c; 25 for 55c; 60 for \$1.15; 100 for \$1.50.

SMITH SEALED—Pigeon. Doz 30c; 100 \$1.50



SPIRAL COLORED LEG BANDS. Made like a key ring-easy to put on, nothing to catch or tear off—instantly identifies your birds as far as vou can see the color. All sizes from chick to mature fowls.

Ten Colors—Red, White, Yellow, Black, Pink, Green, Brown, Purple, Light Blue, Dark Blue. Prices postpaid, 12 for 20c—25 for 35c—50 for 55c— 100 for 90c.

#### SMITH SEALING TOOL

Made especially for sealing the Smith legands. Plain jaw 75c; lettered jaw, any letter, \$1.00; postage 10c.

#### RELIABLE POULTRY MARKER

For marking the web between the toes. One of the best and handiest markers. Postpaid 25c

#### POULTRY KILLING KNIFE

Postpaid 50c French, best and most popular. SCISSORS POULTRY PUNCH

Strong. Cuts clean. Each 15c, postpaid 20c



#### PETTEY'S POULTRY PUNCH

Latest, most convenient Poultry Punch; can be put on a key ring or used for a watch charm. Will not clog. Very practical. Postpaid 25c

#### THERMOMETERS

#### FOR INCUBATORS—TESTED

"Buckeye." Tested. Each \$1.00

Fig. 6-S. S. Co.'s triangle shape; metal back. Each \$1.00

Fig. 10.—S.S.Co.'s Straight Metal back. Ea 75c Fig. 7.—Mandy Lee style. Each \$1.00

#### FOR BROODERS

"Buckeye." Tested. Each \$1.25

Fig. 2.—S.S.Co.'s; for any style brooder. Ea 75c

#### BREEDER'S MAGIC EGG TESTER

The Manufacturer's Challenge—Any person in the world to hatch one egg the Magic Egg Tester registers unhatchable before incubation. No light. No electricity. No expense and lasts a life-time. Shows the hatchable eggs before incubation.

Don't set another egg until you have the Breeder's Magic Egg Tester. Price each \$2.50

MANDY LEE EGG TESTER-Made to use on lamp, fits No. 2 burner. Price 50c postpaid

#### FOR GENERAL USE

Cabinet No. 5. 8-in. wood back, nice finish, 50c

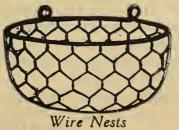
#### HOTBED THERMOMETERS

For taking temperature of soil at varying depths.

No. 3½. No. 3. All Metal. Each \$1.50 Each \$1.75 Each \$2.00

#### **NEST EGGS**

China—Best grade Opal Eggs. Weight per doz 3/4 lb. Price—3 for 10c; 12 for 35c LIME—Indestructible. Weight per doz. 2 lbs. Price: Each 5c; doz. 40c; postpaid, ea. 10c



#### WIRE HEN'S NESTS

Strongly made; very durable; fasten to the wall; no harbor for vermin. Weight 10 ozs. each. Price each 25c; dozen \$2.50.

#### MANN BONE CUTTERS

The only mill that will cut Green Bone and not clog

HE Mann's Green Bone Cutter is offered to the poultry world on a warranty to produce a perfectly edible poultry food, with no waste, from any lot of green bones, with less labor, and less annoyance than any other bone cutter.

We send the Mann's to any responsible poultryman with this understanding: If you are not satisfied that it meets every claim we make for it, notify us, and we will give instructions to return the machine, and will, upon receipt of same refund purchase price. Could you ask more? The Mann's is the only machine which has a self-governing feed, pro-

ducing uniform pressure against the knife, whether the bone be hard or soft. You set the machine to suit your strength,

and it never requires more power than you set it for.



MANN'S No. 5

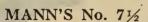
Has four knives, large solid cylinder, and has the latest patent automatic governing spring feed which makes it one of the best low-priced bone cut-

ters ever offered. We can furnish with crank, balance wheel, or mounted on iron stand.

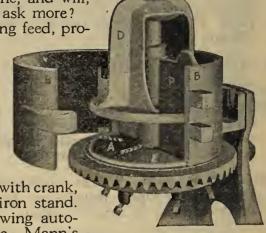
Mechanism of the Mann's showing automatic force-feed, cylinder parts, etc. Mann's catalog gives all details.

#### MANN'S No. 7

automatic governing spring feed. holding capa Large open-hinged cylinder, giving larger table. instant access to all working parts, has six knives, gear guard, anti-clog device, heavy balance wheel and other improvements. (See cut.)



Adapted to run either by hand or power without any change. The particular advantage of the 7½ is that while it is a complete power machine, it can be operated by hand just 120 to 150 pounds per hour. Horse-as easily as the No. 7. It is recompower required, one to two. Just the mended even if you have no power, for machine for marketmen, extensive should you get power you need be at breeders, or anyone who has large no further expense.



Mann's No. 71/2

#### MANN'S No. 9

The New No. 7 is mounted on a About the same as No. 7, except that strong iron stand, and has patent it has a larger cylinder and greater holding capacity, different design and

#### MANN'S No. 11

The No. 11 is exactly the same as No. 9, with the power parts added. It has all the latest improvements. Capacity, 100 pounds per hour.

#### MANN'S No. 12-POWER

Strictly a power machine, and full of business from top to toe. Capacity quantities of bone to cut.



Mann's No. 11

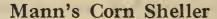
Mann's No. 9

#### PRICE LIST OF MANN'S RONE CUTTERS

THICK EIGT OF WINNEYS BOTTE GOTTESTS								
New Styl	es	Price	Wgt.					
No. 5C	(with crank handle)	.\$11.85	30					
No. 5B	(with balance wheel)	. 17.25	55					
No. 5BM	(B.W. and iron stand).	. 22.25	80					
No. 7	(B.W. and iron stand).	. 25.00	107					
No. 7½	(hand or power)	. 34.00	150					
No. 9	(B.W. and iron stand).	. 39.00	163					
No. 11	(power machine)	. 53.00	215					
No. 12	(power machine)	. 66.00	260					
No. 15	(power machine)	.128.00	420					

= MANN'S HANDSOME 40-PAGE CATALOG

is fully illustrated and tells all about the different style Greene Bone Cutters, Clover Cutters, Corn Shellers, Grit Smashers, etc., and contains much valuable information. Free on request.



Best low-priced corn sheller made. A profitable tool if you have corn to shell. Weight Price \$3.75 10 lbs.

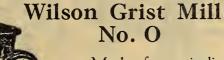
#### Mann's Cast Iron Mortar

For breaking glass, crockery ware or oyster shells. Weight 33 pounds; height 12 inches; 9 inches square; pestle 4 feet long.



#### Wilson Dry Bone Mill No. 1

This is a practical mill, grinding all kinds of shell, crockery, grit, burnt or dry bone, feed, etc., coarse or fine. Weight 33 lbs. Price \$6.75



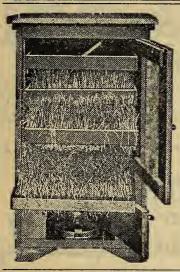
Made for grinding flour, corn meal, etc., and for cracking grain. Weight 30 lbs.

Price \$6.75

#### Black Hawk Mill

With a Black Hawk Mill in the house you crack the corn or grind any kind of grain to whatever degree of fineness you desire or whichever will best suit the use or condition of your chickens. Its wide range of usefulness, its durability and small cost will appeal to the family in town with a small flock in the back yard, and it has a large enough capacity to meet the needs of those in the country who keep poultry on a big scale.

Price, \$3.50



Wilson's Mill No. 1

#### SPROUTED OATS

NCREASE THE EGG YIELD, DECREASE THE FEED BILL

A bushel of oats sprouts into 3 bushels of nutritious green feed. Hens lay more eggs, young chicks grow faster and are more healthy on green feed. Oats, rye and wheat can be easily and quickly sprouted and make the most economical and profitable food for winter. We carry the DOUBLE QUICK.

"DOUBLE QUICK"

No.	1-1/4	Bu.,	2	trays,	25	to	37	hens,	18x14x23,	wt. 35	lbs	\$10.00
No.	2-1/2	Bu.,	4	trays,	50	to	75	hens,	18x14x30,	wt. 45	lbs	12.00
No.	3— I	Bu.,	5	trays,	100	to	150	hens,	21X17X40,	wt. 75	lbs	18.10
No.	4- 2	Bu.,	6	trays,	200	to	300	hens,	25X2OX44,	wt. 100	lbs.	24.00
No.	5- 5	Bu.,	I 2	trays,	400	to	600	hens-	-Write for	special	prices	3.
No.	6-8	Bu.	16	travs.	700	to	1200	hens-	—Write for	special	prices	5.

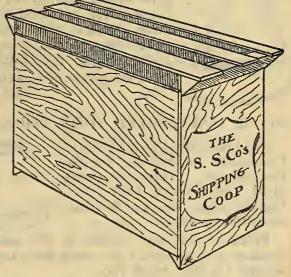
#### S. S. CO.'S SHIPPING COOPS

These Coops are all wood, neat, very light, but strong. Poultry raisers who are selling poultry at fancy prices should always use these coops to ship their birds in. If your birds are worth shipping at all, they are worth putting in a neat up-to-date coop.

ting in a neat up-to-date coop.

Our prices are very low. Coops always shipped K. D. (in flat), as the freight rate is much lower. Order a few of each size and have them on hand for rush orders. No. 1, for single bird or small pair; No. 2, for large bird or small trio; No. 3 for large trio or pen of small birds.

PRICES	Each	Six for
No. 1—10x21x18	\$0.60	\$3.25
No. 2—12x24x20	75	4.00
No. 3—20x24x20	. 1.00	5.25



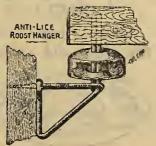
#### COLLAPSIBLE POULTRY COOPS

These are the neatest, lightest and strongest coops for shipping poultry that we have ever seen. They are well made, and will last for years. Easily cleaned and stored.

#### ANTI-LICE Roost Hanger

Screws into the wall. Keep the cup filled with Lee's Lice Killer or kerosene.

Price each 25c; pair, 45c; doz \$2.50.



#### CAPONIZING INSTRUMENTS

The demand for capons exceeds the supply, the price per pound averaging more than twice as much as that paid for ordinary roosters.

S. S. CO.'S STANDARD. the best low priced set. Price postpaid \$2.00



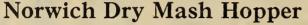
#### NORWICH AUTOMATIC EXERCISER AND FEEDER

Every kernel of grain put into this feeder will go to your flock, not a single one will be wasted. Absolutely bird and rat proof. Rain or dampness cannot affect it. Saves its cost in 90 days by preventing waste, requires no attention except filling of hopper when empty. Adjustable for slow or fast feeding.

#### KEEPS THEM BUSY ALL THE TIME

Guaranteed to improve the flock, increase the egg production and save feed. Descriptive pamphlet on request.

				IRON	
No. 1— No. 2— No. 3—	8 quarts 14 quarts 20 quarts	3 3	 • • • • • • • •	 	\$4.00 5.25 6.50



Solves the problem of Automatic Dry Mash Feeding. The vibrator rods make clogging impossible and the construction of feed basin elim-

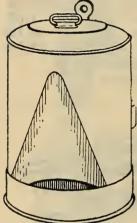
Price, 8 qt. capacity, weight 8 lbs., \$3.50



This has the same mechanical features that make the Norwich so successful, but is made to hang. Complete with adjustable feed discharge.

**Apaco Poultry Feeder** 

Price, 12 qt. capacity, weight 5 lbs., \$2.25



#### FEEDERS AND FOUNTS

#### GALVANIZED WALL FOUNTAIN

No. 5. Something new and serviceable. To be hung on the wall or against an upright post. The patented construction protects the water from becoming soiled. One gallon size, weight 2 lbs .Each \$1.10 Two-gallon size, weight 21/2

#### No. 12 GALVANIZED IRON FOUNTAINS

Our Galvanized Iron Drinking Fountains, we believe, are the best in use. They are easily filled, cleaned and kept clean. Lighter than the earthenware and safer to ship.



Each \$1.35

Price—Small size, weight 3/4 lb., each 45c; medium size, weight 1 lb., each 55c; large size, weight 1½ lbs., each 70c.

#### SANITARY STONE FOUNTAIN



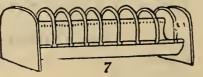
These are strong and well finished; made in two pieces. They probably keep the water cooler than the galvanized fountains, but are heavier to 13 handle and more liable to break.

Price—1/2 gal. 40c; 1 gal. 60c; 2 gal. 85c.

#### No. 7 WIRE COVERED FEEDER

A practical, convenient feeder for young chicks. Durable and easily cleaned. Weight 1 lb.

Price, 12 inches each 50c.



#### No. 1 "DIAMOND" SANITARY SELF-FEEDING

Made of heavy galvanized iron; soon pays for itself in preventing waste of feed. Keeps grit, shells and charcoal before the fowls at all

Price, 3 compartments, weight 2½ lbs., each, \$1.10. Large size, 2 compartments, weight 3 lbs., each \$1.35.



Chicks

6 Weeks

old will operate this feeder

#### THE "ALLRITE" FOUNTAIN AND FEEDER

For water, grit, chick food or grain, using ordinary Mason jar, either quart or half gallon.

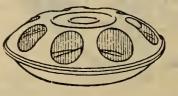
Galvanized pan is quickly detached. easy to clean, will not rust.

PRICE, one size only without jar, weight, ½ lb. each. Each, 25c; doz. \$2.50



#### CIRCULAR CHICK FEEDER

Made of heavy galvanized iron. The cover fits tight and chicks cannot climb into it.



Convenient and economical. Made in two sizes.

8 holes. Each 30c 12 Holes. Each 45c



#### Miscellaneous Poultry Supplies—Continued



Kant-Krack Egg Box is specially designed for the safe delivery of valuable eggs for hatching and is a great favorite with poultrymen.

Made of heavy corrugated paper. Only a few seconds' work to set the box up, pack it with eggs, and address it. These boxes are light but very strong, being firmly braced, and will stand the weight of several hundred pounds without crushing.

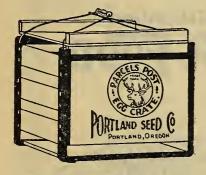
No.	Size	Wt.	Each	Six	Dozen
3	15-Egg	1 lb.	\$0.30	\$1.60	\$3.00
4	30-Egg	1½ lb.	.40	2.10	4.00
5	50-Egg	2 lb.	.50	2.60	5.00

#### IDEAL PAPER EGG BOXES

Intended for use in delivering eggs to private families. Nicely printed with a blank space for your name and address. Weight 12 lbs. per 100.

Prices—1-dozen size, 20c dozen; \$1.10 per 100; \$10.00 per 1000. Sample box by mail 5c

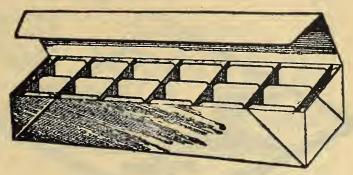
#### NEW PARCEL POST EGG CRATE



The Strongest Lightest Egg CARRIER.

You can mail eggs in this crate 150 miles with return of crate for 3½ cents a dozen. Sizes—6 or 12 doz. each.

Prices—Each, complete, 75c; bundles of 12 K. D., no fillers, each 60c.



#### SUWANEE EGG CARTON

Throw away your "fillers." Use this carton; packs three to a layer in an ordinary egg case. and is always ready for delivery. Saves handling—saves breakage. Built with double walls. Ask for sample. Weight with fillers, 3 ozs. each. Price: Doz 25c; 100, \$1.55; 1000, \$14.50

#### EGG CASES

30-doz size complete with fillers. Each 60c

#### Egg Case Fillers

Packed in cases containing fillers for 12 30-doz cases.

Per Case \$3.25
Fillers for 1 30-doz. case.
Fillers.

Each 5c

#### LIVE CHICK BOXES

Our Live Chicken Boxes for delivering day-old chicks are safe, economical, convenient. They come in three sizes at the following prices:

25-chick size, each 30c; doz \$3.25; 50-chick size, each 40c; doz \$4.20; 100-chick size, each 50c; doz \$5.50.

#### WALLACE EGG BOXES

Each egg is firmly held in a separate cell—this is the safest best made egg carrier.

#### SPECIAL low price to close out

1 doz. size 10c ea., 75c doz.; 2 doz. size 15c ea., \$1.25 doz.; 3 doz. size 20c ea., \$1.50 doz.; 6 doz. size 30c ea., \$2.75 doz.

#### "Grain at Ten Cents Per Bushel"

SPROUTED OATS—Place oats in a tub and pour luke-warm water over them, allowing them to soak 24 hours. Secure shallow boxes one or two inches deep and fill them with oats, then cover carefully with burlap. Water once or twice daily with luke-warm water. When well sprouted remove burlap and let sprouts grow two to four inches in length. Then feed them. One bushel of any grain increases to five bushels and the roots add to the feed. This recipe as been advertised largely at \$10.00.

SEE PAGE 153 FOR DOUBLE QUICK OAT SPROUTER

#### Incubation Table

This table is correct if temperature of Incubator is kept correct throughout the hatch, but some variation would occur, if for instance the Incubator ran too low, chicks would be a day or two later.

Eggs—Geese—30 days. Eggs—Turkeys—28 days.

Eggs—Chickens—21 days. Eggs—Ducks—28 days.

Eggs—Partridges—24 days. Eggs—Pheasants—25 days. Eggs—Guinca Hens—25 days.



#### "Diamond Quality" Poultry Foods



We manufacture our *Diamond Poultry Foods* from choice, clean, wholesome material. They are *made to a standard* and are the result of a lifetime of careful study and experiments by a thoroughly practical expert, who is a recognized authority on feeding.

#### Diamond Chick Food

A Properly Balanced Ration that will make chicks grow and keep them healthy

For Young Turkeys, Pheasants and all young fowls DIAMOND CHICK FOOD is unexcelled. The safest, most dependable and satisfactory food.

Our trade mark on every original package is your protection. Demand it of your dealer, as there are many dangerous substitutes.

#### THE MAKING OF DIAMOND CHICK FOOD

The select grains that are used in the preparation of Diamond Chick Food are cut by a special process, screened to a uniform size and run through a Fanning Mill to remove the dust and meal, which is the fatal element in most Chick Foods. After this process the ingredients are carefully weighed and mixed in correct proportions. No guess work.

Diamond Chick Food gives the chicks just what Nature intended they should have, a food composed of grains (cracked), small seeds, bone, dried sweet meat, charcoal, etc., mixed in the right proportions to produce a quick and profitable growth without loss.

Diamond Chick Food is so convenient, always ready for use, and you can raise so many more chicks by feeding it that it is the cheapest food you can buy.

Price: 4 lbs 25c; 8½ lbs 50c; 25 lbs \$1.45; 50 lbs \$2.65; 100 lbs \$5.00

## Diamond Egg Food

Makes hens lay when eggs are high; keeps poultry healthy.

Unequaled for feeding young chicks.

A complete ground food to be fed dry or wet. Starts hens laying and keeps them at it. Hastens moulting. Puts poultry in prime condition. Makes young fowls grow fast.

No Drugs—No Stimulants—but a rich, wholesome nourishing food for growing fowls and hens, encouraging rapid growth and increasing egg production. Can be fed dry or as a mash and is the most successful combination of egg producing elements. Put up in 100-lb. bags. Full weight.

Price: Per 1b 6c; 25 1bs \$1.25; 50 1bs \$2.25; per 90-1b sack \$4.00.

PRICES on all POULTRY FOODS are subject to market changes without notice



#### Diamond Growing Food

ALL GRAIN

For Quickly Developing Little Chicks Into Big Profit-Paying Broilers

Our special formula for promoting a rapid, healthy growth, and should be fed after the third or fourth week; nothing else needed; will quickly produce large, plump "Broilers."

Price: Per 4 lbs 25c; 10 lbs 60c; 50 lbs. \$2.50; 100 lbs \$4.75

#### **Diamond Scratch Food**

Complete, economical and satisfactory for every feeding requirement from the three-weeks-old chick to mature fowls.

A perfect "working ration" for fowls. Carefully prepared in correct proportion, a veritable "hen's delight." fed in conjunction with Diamond Egg Food a scant allowance scattered in the scratching material in the morning keeps the hens busy hunting for the grains. In the evening

feed sufficient that hens may go to roost with crops full.

Diamond Scratch Foods can be fed to young chicks at three weeks and has every element necessary to hasten normal growth and build up bone and flesh. A rich nourishing food they greatly relish.

Prices—4 lbs 25c; 10 lbs 50c; 50 lbs \$2.35; 100 lbs \$4.60

#### Diamond Pigeon Food Made to a Standard

A properly balanced ration, easily assimilated, gives wonderful results when fed to squabs, or in preparing for exhibition; fed by the big squab breeders as a regular working ration, the most economical and satisfactory Price 4 lbs. 25c; 9 lbs 50c; food for rapid growth. 50 lbs \$2.65; 100 lbs \$5.00



#### HIGH GRADE MEAT SCRAPS

**DIAMOND BRAND, SPECIAL.** A new meat product, perfectly prepared, fine ground and clean. The highest feeding value yet produced. Price: 3 lbs 25c; 50 lbs \$3.65; 100 lbs \$7.00

#### FISH SCRAP

A high grade poultry food, rich in protein relished by fowls—furnishing a clean, healthy meat ration. No chemicals or acids used in its manufacture, and it is free from meal and dust.

Price: 50 lbs \$3.15; 100 lbs \$6.00

#### FISH MEAL

A fine-ground, pure, sweet fish meal, containing protein—feed as you would meat meal; a rich, wholesome food for poultry.

Price: 50 lbs \$3.15; 100 lbs \$6.00

GRANULATED BONE
Our "Diamond Brand" is made from selected hard white raw bones, and of a superior quality; an indispensable food for laying hens. DIAMOND. Price: 10 lbs 60c; 100 lbs \$4.00 STANDARD. Price: 100 lbs \$3.75

#### DIAMOND MEAT MEAL

A highly concentrated food. Being cooked meat, dried and ground. Very rich in protein. It should be mixed with the soft food. No hides or tankage in our meat meal, but, as its name implies, meat, cooked, dried and ground; unexcelled for egg-production.

3 lbs 25c; 50 lbs \$3.65; 100 lbs \$7.00

#### TOBACCO DUST

For use in dust baths and nests. A cheap and effective exterminator of lice.

Price: 1 lb. 15c; 10 lbs \$1.00; 100 lbs. \$7.50 GRIT

Every poultry raiser should keep a supply of grit in each pen. Made in two sizes, chick and hen size. We always send hen size unless otherwise ordered.

DIAMOND CRYSTAL.

Price: 5 lbs 15c; 50 lbs 90c; 100 lbs \$1.50

#### CHARCOAL

Our Charcoal is prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion; a health preserver.

Prices: 1 lb 10c; 10 lbs 70c; 100 lbs \$5.00

#### **BLOOD MEAL**

The most highly concentrated egg-producer on the market. To be fed in soft food. Unex-celled as a food for forcing growth of chicks or as an egg food.

DIAMOND.

Price: 1 lb 30c; 10 lbs 90c 50 lbs \$4.50; 100 lbs \$8.50

#### OYSTER SHELLS, CRUSHED

We offer nice clean stock, free from dust and waste. These should be within reach of your hens at all times. In two sizes: coarse and fine. DIAMOND. Price: 10 lbs 30c; 50 lbs \$1.15; 100 lbs \$2.00

#### BIRD SEED

Special Prices in Quantity Not for planting. Special Prices in Quantity S. S. Co.'s Best Mixed. Per lb. postpaid 30c Canary, best re-cleaned. Per 1b. postpaid 35c Hemp.....Per lb. postpaid 25c Millet.....Per lb. postpaid 20c Rape.....Per lb. postpaid 25c

#### ALFALFA MEAL

The best substitute for green food for Winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts,

Price: 1 lb 5c; 10 lbs 40c; 25 lbs 80c; 50 1bs \$1.30; 100 lbs \$2.25.

#### POULTRY PEPPER COMPOUND

A good tonic and invigorator; ground. Price: 1 lb 25c; 5 lbs \$1.15



#### LEE'S FOODS AND REMEDIES FOR STOCK AND POULTRY

THE GENUINE MERIT of the LEE FOODS and REMEDIES and their recognized superiority is their best guarantee, and you can depend upon them absolutely to do all that is claimed for them. The valuable booklets of the Lee Company are free to poultry keepers and stockmen, and contain reliable and complete information to date on poultry and stock feeding problems.

them on request.

#### LEE'S LIOUID LICE KILLER

FOR 20 YEARS THE STANDARD

Destroys either by vapor or contact. No trouble to apply; just paint the roosts or wall at night. Rids poultry and houses of all vermin; is prepared exclusively for this purpose, and there is nothing just as good.

Price—Ot. 60c; ½ gal 90c; 1 gal \$1.50; 5 gal \$7.00



#### LEE'S GERMOZONE

Regular use of Germozone insures BETTER health; BETTER chicks; BETTER layers; and the RIGHT kind of BREEDERS. Use it for Bowel Complaint in little chicks; for Cholera, Roup, and other diseases among the older fowls; and regularly TWICE-A-WEEK for ALL fowls. It prevents contagion, tones the system, and insures BETTER health for the entire flock.

Prices: Liquid, not prep'd, 4 oz bottle 40c, 12 oz 75c, 32 oz \$1.50, gal \$4.50; tablets, postp'd, pkg 75c

LEE'S EGG MAKER is not a tonic nor a medicine, but a meat food of great value. It will make hens lay, chicks grow, and keep them all in a healthy, vigorous condition.

2-lb pkg 50c; 5-lb pkg \$1.00; 25-lb pail \$4.50.

LEE'S HEADLICE OINTMENT. For little Large box,15c chicks.

LEE'S LOUSE POWDER. 1-lb can 30c

LEE'S WHITE DIARRHOEA REMEDY. The best medicine for this dangerous disease of little chicks. Wt. 2 lbs; 12-oz bottle 50c

LEE'S HOG REMEDY. Cures all diseases of hogs and keeps them healthy.

7½ lb pkg \$1.00, mailing weight 9 lbs;

25-lb pail \$3.00.

LEE'S DIP. For lice, ticks, mange, itch or scab, on cattle, sheep and hogs. Qt. 75c; ½ gal \$1.00; gal \$1.75; 5 gals \$7 50. Mailing weights, qt 3 lbs; ½ gal 5 lbs; gal 10 lbs

LEE'S WORM POWDER For horses, cattle, sheep and hogs. Safe and sure in result. Pkg 25c; weight 11/4 lbs

LEE'S BEST CONDITIONER STOCK FOOD. Promotes good health, digestion and assimilation.

7 lb pkg \$1.10; 25-lb pails \$4.50

LEE'S PEERLESS GOPHER KILLER. For killing gophers, squirrels, etc. Sure death.

Quart can, wt 3 lbs, 75c

LEE'S PEERLESS BUG KILLER.

Wt, pkd, 2 lbs; 12-oz bottle, 35c

LEE'S SMOKE FLAVOR. Hickory Smoke Extract applied to meat preserves it indefinitely, imparting the delicious flavor that is only otherwise obtained by smoking with green hickory.

12-oz bottle, wt pkg, 2 lbs, 50c; 32-oz

bottle \$1.00.

LEE'S FLYO-CURO. We sell thousands of cans of this fly spray every season, and it gives good satisfaction.

Qt 70c; 1/2 gal \$1.00; gal \$1.50; 5 gals \$7.50. Mailing weights, qt 3 lbs; 1/2 gal 5 lbs; 1 gal 10 lbs.



#### EGG-O-HATCH and EGG-O-LATUM

DON'T GET THE TWO NAMES MIXED

Egg-o-hatch is a dry powder. •It is mixed with water and the resulting liquid is applied to eggs two or three times during the 21 days of incubation. It is a liquid that does three things—supplies

oxygen for the growing chicks; absorbs carbon dioxide given off; makes more brittle and porus the shell of the egg.

Price 50c postpaid. Will treat 600 eggs.

Egg-o-latum is a white cerate. Rubbed over the shell of the egg it seals every pore so no air, moisture, odors, or germs can get in. Preserves the egg in all its original freshness. The applica-

tion of Egg-o-latum is easily and quickly done. A dozen a minute and they will keep a year. Fresh eggs must be used, unfertile ones are best. One pkg. treats 50 doz. eggs. Price 50c postpaid.







SPRATT'S PUPPY CAKES. A perfect and whole food for puppies of all breeds.

Price, in medium cartons, 50c. Cheaper in bulk. Prices on application.

**SPRATT'S PLAIN PUPPY MEAL.** The standard weaning food. This meal should be fed before and after the weaning period to insure large, vigorous and healthy puppies.

Price, in medium cartons, 50c. Cheaper in bulk. Prices on application.

spratt's fibo. Can be fed with grand results as a staple diet, especially for the smaller breeds, or makes a fine change in diet for any dog. All dogs will eat Fibo.

Price, in medium cartons, 45c. Much cheaper in bulk. Prices on application.

#### SPRATT'S DOG FOODS AND REMEDIES

We are selling agents for these famous preparations which have the endorsement of the big breeders and fanciers—and are the standard in their line.

We can only list a few items in this catalogue, but will mail free to dog owners "Spratt's Dog Culture" which gives reliable and interesting advice and information on the care of dogs and tells about "Spratt's" preparations.

SPRATT'S DOG CAKES. The standard dog food. Used at the leading kennels and dog shows throughout the world; a staple and constant food for all breeds of dogs.

Price, in medium cartons, 50c. Much cheaper in bulk. Prices on application.

REMEDIES

SPRATT'S TONIC AND CONDITION TABLETS. To build up after sickness and to put in bench show form, etc.

50c

SPRATT'S DISTEMBED TABLETS

MOVE

SPRATT'S DISTEMPER TABLETS. May also be used as a preventive. 75c

SPRATT'S WORM CAPSULES. The best expellent of round, maw and tape worms. 50c SPRATT'S MANGE REMEDY. 50c SPRATT'S WHITE DOG SOAP. Most ef-

spratt's white dog soap. Most effective in the destruction of lice and fleas. Makes the coat smooth and glossy. 25c

#### SPRATT'S CAT FOODS AND REMEDIES

**SPRATT'S CAT FOOD.** A complete and staple food for cats. Used at the leading catteries throughout the world.

Medium cartons 50c Cheaper in bulk. Prices on application.

spratt's fish cat food. Used as a change of diet, especially during the summer months. Prices, same as regular cat food.

**SPRATT'S MILK CAT FOOD.** Excellent for kittens and invalid cats.

Prices, same as regular cat food.

#### REMEDIES

SPRATT'S TONIC AND CONDITION TABLETS. For cats. 50c SPRATT'S DISTEMPER TABLETS. 75c

SPRATT'S WORM CAPSULES. 50c

#### SPRATT'S CAGE BIRD FOODS, REMEDIES, Etc.

SPRATT'S BIRD TONIC. For the prevention and cure of all diseases which cage birds are subject to. 25c

SPRATT'S BIRD LICE DESTROYER. For dusting the feathers. 25c

SPRATT'S COD LIVER OIL CAGE BIRD FOOD. For feeding young birds and old birds in the moulting season. A tonic and flesh and bone maker. Unequaled as an aid to feather growth.

SPRATT'S COLOR FOODS (Red or Orange). Deepens and intensifies the natural color of the plumage. 25c

SPRATT'S SONG RESTORER. A treat and a tonic for canaries, linnets and all seed-eating birds. 25c

#### SPRATT'S AQUARIUM FISH FOOD

The only aquarium fish food that does not foul the water. 15c



FEED YOUR SPRATT'S PATENT DOG CAKES



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#### You Can Control

# ROOT MAGGOT "MAG-O-TITE"

A Positive Remedy for Root Maggot

Easily applied, inexpensive, not harmful to plant life; but a valuable fertilizer and stimulant in powder form.

Absolutely Protects
Cabbage, Radishes, Turnips
Onions, etc.

PRICES: 2 lbs 25c, 4 lbs 50c, 8 lbs \$1.00, 25 lbs \$2.60, 100 lbs \$9.00

#### GLASS EXHIBITION JARS



#### NEW PARCEL POST RATES

20.000

PARCEL POST RATES are based on DISTRICTS and ZONES. THE DISTRICT includes the office where mailed and the rural routes therefrom.

A DISTRICT RATE OF 5 CENTS for the first pound and 1 cent for each additional two pounds or fraction thereof up to 70 lbs. (the district weight limit) is charged between points in this district.

First and Second Zones cover a radius of 150 miles from the point of mailing, having a weight limit of 70 pounds and a rate of 5 cents for the first pound and 1 cent for each additional pound, or fraction thereof. The Third Zone also has a weight limit of 70 pounds.

A weight limit of 50 pounds applies to the fourth, fifth, sixth, seventh and eighth zones with rates increasing with the distance. See table.

SIZE AND WEIGHT .- A Parcel Post package may weigh from 4 ounces to 70 pounds for the first, second and third zones—with a 50-pound weight limit for fourth to eighth zones, and must not exceed in size 84 inches in length and girth combined.

Four Ounces or less will be charged for at 1 cent per ounce or fraction thereof, except on Books, Seeds, Plants, Bulbs, etc., which are 1 cent for 2 ounces up to 8 ounces for any distance.

We have catalogued the weight of most items mailable by Parcel Post and by reference to the table you can always figure your postage.

DAY OLD CHICKS AND BEES cannot be sent C. O. D. Parcel Post.

Parcel Post Rates apply to Seeds, Plants and Books weighing over 8 ounces. Other fourth-class matter over 4 ozs. is charged at pound rates	First Pound or Fraction Thereof	Each	Each Additional Pound or Fraction	
Local or District Rate—Spokane Office and Rural Routes therefrom.  1st Zone \ up to and including a radius of 150 miles from 2nd Zone \ the point of mailing.  3rd Zone.  4th Zone.  5th Zone.  6th Zone.  7th Zone.  8th Zone.	\$0.05 .05 .06 .07 .08 .09 .11	1/2 cent  \$0.01 .02 .04 .06 .08 .10 .12	Weight Limit 70 lbs. Weight Limit 70 lbs. Weight Limit 70 lbs. Weight Limit 50 lbs.	



WAR TAX On Packages requiring 25c Postage add 1c Tax; on 26c to 50c add 2c Tax; over 50c add 1c for every 25c or Fraction thereof.



The 8th zone rate applies to ALASKA, HAWAII, the PHILIPPINES and SHANGHAI, CHINA, with 20 lb. weight limit-To CANADA, MEXICO, CUBA and PANAMA, when over 4 oz. and not exceeding 4 lbs. 6 oz. 20 lbs. can be sent to MEXICO and PANAMA as Foreign Parcel Post.

"DIAMOND QUALITY"

#### **FERTILIZERS**



Ask for our Special Fertilizer Catalog, containing valuable information on the use and application of Fertilizer.

The base of "Diamond" Fertilizers is Bone Meal and Bone Tankage, to which is added the necessary Chemical Elements. No sand, earth or other cheap filler is used. They are of guaranteed analysis, conforming to the standards required by the State Laws.

	POUNDS PER ACRE	FERTILIZER TO USE	WHEN TO APPLY
Fruit trees and bushes Flower beds Grapes	300 to 600 100 to 200 400 to 800 400 to 800 See Plants, etc. 400 to 800 400 to 800. 325 to 650. A teaspoonful to a plant or broadcast. ½ to 11b. per plant.	Vegetable Nitrate of Soda Fruit Fruit Lawn "Diamond" Plant Food Vegetable Lawn Lawn	Spring. Fall or Winter preferred, or early spring. Fall or Winter preferred, or early spring. Fall or early spring. Apply fall or spring, broadcast. Directions on each package.  Early Spring. Worked in the top soil when cultivating or making beds. Fall, winter or spring.

